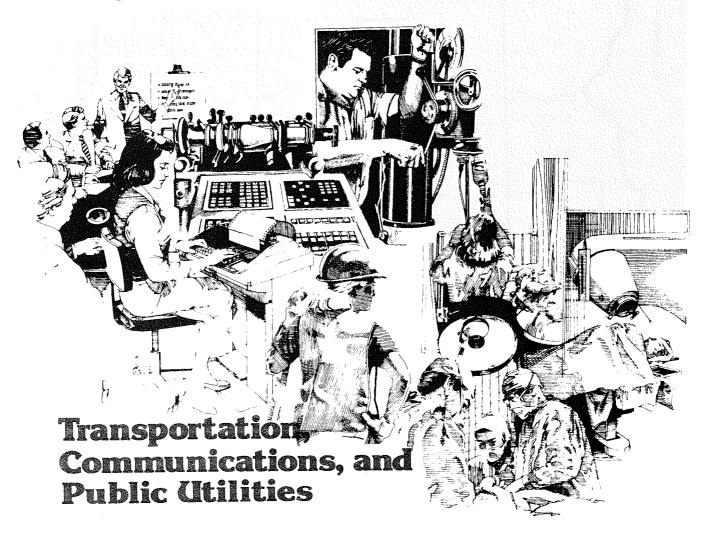
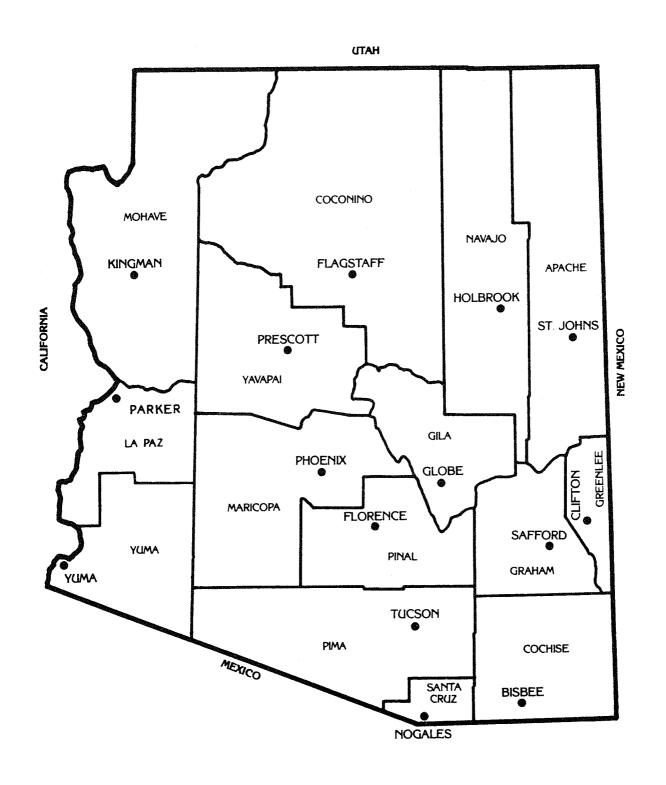
Arizona Occupational Profile

A Labor Market Information Publication of the Department of Economic Security



Map of Arizona



OCCUPATIONAL PROFILE

The value of current occupational employment information has long been recognized by job seekers, public and private administrators, and those involved in training, recruiting, and counseling. A major source of this information in Arizona is the Occupational Employment Statistics (OES) Program—a cooperative effort between Arizona and the U.S. Bureau of Labor Statistics.

This Occupational Profile is one in a series of publications produced from information developed by the Occupational Employment Statistics survey. These publications represent one of several occupational employment information delivery systems incorporating OES survey data. The survey is used to collect employment data, by county, for over 700 occupations in Arizona. From these surveys, which required the cooperation of the Arizona business community, current employment in the various occupations is determined, and from this an occupational outlook is formulated. The Occupational Profiles contain the survey findings and examine, individually, the following industries of Arizona:

Construction
Educational Services
Finance, Insurance, and Real Estate
Government
Hospitals
Lodging
Manufacto
Mining
Services
Trade
Transport

Manufacturing
Mining
Services
Trade
Transportation, Communications, and
Public Utilities

For further information, requests, or to comment on any aspect of this program, please write to Arizona Department of Economic Security, Research Administration.

Labor Market Information Publications
Occupational Employment Statistics, 733A
P.O. Box 6123
Phoenix, Arizona 85005-6123

INDUSTRY INFORMATION

INDUSTRY DEFINITION

The industry division designated as transportation, communications, and public utilities includes establishments providing passenger and freight transportation, communication services, and electricity, gas, steam, water, or sanitary services.

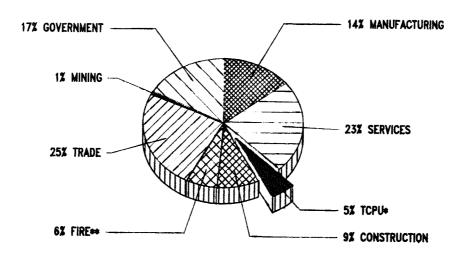
A detailed description of these industries is found in the *Standard Industrial Classification* (*SIC*) *Manual* under codes 40 through 49. Employment data for the U.S. Postal Service (SIC code 43) is not included in this publication. In addition, the occupational data includes certain services rendered by state and local government, e.g., irrigation.

Often referred to as the regulated industries, transportation, communications, and public utilities are grouped together because they provide a public service and are often owned or regulated by public agencies. The regulations vary from industry to industry, but, in general, their goals are to ensure fair prices and to see that the public interest is served.

INDUSTRY CHARACTERISTICS

Employing approximately 66,000 in 1986, the transportation, communications, and public utilities (TCPU) industry accounts for about 5 percent of Arizona's 1.3 million workers earning a wage or salary. Employment in transportation services totals more than 30,000, while those working in the public utilities and communication industries combine for the balance.

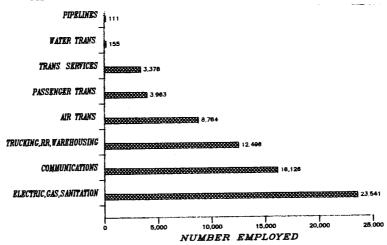
ARIZONA NONAGRICULTURAL EMPLOYMENT 1986



* TCPU = TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES **FIRE = FINANCE, INSURANCE, AND REAL ESTATE

Predominant in the transportation industry is trucking, which accounts for 39 percent of the sector's employment. At the other extreme is pipeline transportation of coal slurry or petroleum, and water transportation firms, many of which provide sightseeing and river running trips and excursions on the Colorado River.

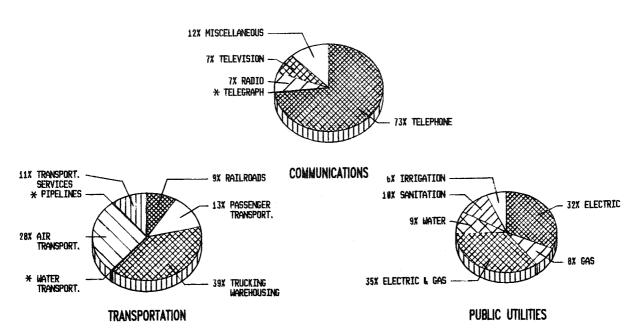
ARIZONA EMPLOYMENT IN TCPU - 1986



TCPU = Transportation, Communications, and Public Utilities

The public utilities sector includes providers of water, electricity, gas, and sanitary services. In this category, three of every four workers are involved in the production and distribution of energy. And lastly, in the communication services sector, telephone workers likewise claim 73 percent of the total.

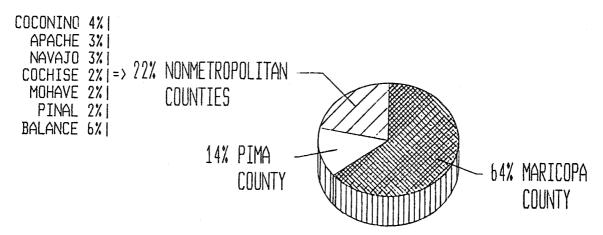
EMPLOYMENT DISTRIBUTION WITHIN TCPU 1986



* Water Transportation, Pipelines, and Telegraph represent .5%, .4%, and .3%

Geographically, two-thirds of Arizona's TCPU employment is located in Maricopa County where communications and transportation services are concentrated. About 65 percent of the state's communications employees

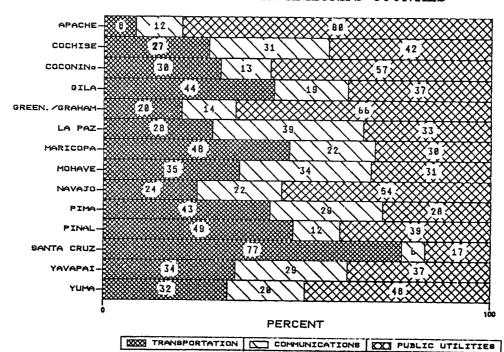
GEOGRAPHIC DISTRIBUTION OF TCPU EMPLOYMENT



and 75 percent of the employment in the airline and trucking industries are located in the Phoenix metropolitan area. In addition to requiring the services of these industries to satisfy the needs of its population, the state's major population center is also the administrative center for many firms in the industry.

TCPU employment in several of the nonmetropolitan counties is dominated by public utilities as indicated by the following graph. Power generating plants in Apache, Coconino, and Navajo counties contribute a great deal to TCPU employment. Dominant in Santa Cruz County is the transportation sector with a high number of truck drivers who service the trade center of Nogales on the U.S.-Mexico border.

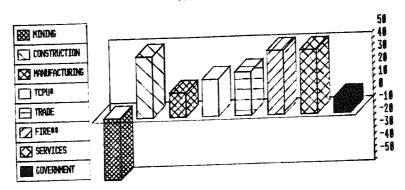
DISTRIBUTION OF TCPU IN ARIZONA'S COUNTIES



INDUSTRY TRENDS

Characterized by consistent and predictable growth as it responds to the needs of a growing population and expanding economy, employment in TCPU increased by more than 70 percent during the decade of the 1970s. Although falling short of the average growth rate for all industries, TCPU boasts a year-to-year consistency unmatched by any other major industry division. Even during the most recent recession, TCPU managed a 10 percent employment increase for the period 1980-1982, while the change for all Arizona industries averaged a mere 1.5 percent.

EMPLOYMENT PERCENTAGE CHANGE IN ARIZONA'S INDUSTRIES 1980-1986

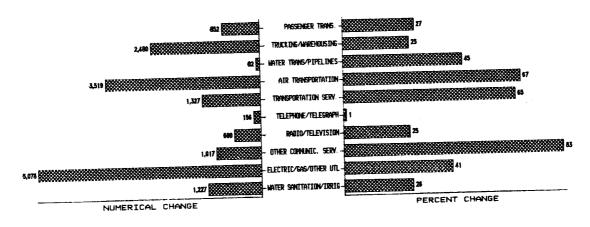


STOPU-TRANSPORTATION, COMMINICATIONS, AND PUBLIC UTILITIES SAFINE-FINANCE, INSURANCE, AND REAL ESTATE

Continuing a trend established in the 1970s, employment in public utilities expanded 37 percent between 1980 and 1986. The producers and distributors of gas registered the highest growth rate, although firms which provide both electric and gas services accounted for the largest employment increase.

Also continuing a trend of strong growth is employment in transportation services, for the most part, as a result of deregulation in 1978. Employment growth in Arizona's air transportation industry increased a robust 67 percent between 1980 and 1986 as carriers expanded services to

EMPLOYMENT CHANGE IN TCPU 1980 -1986



the lucrative sunbelt routes. Also registering strong growth were transportation services, led by employment in travel agencies and other businesses providing travel information.

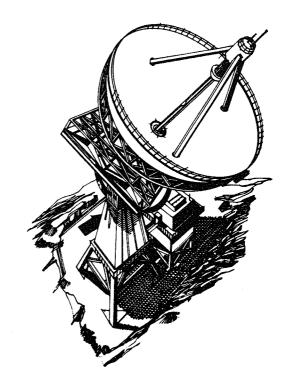
As a group, communication services employment shows modest expansion, especially when compared to growth rates established in the early 1970s. Yet, divisions within communication services experience a wide range of growth rates. For example, employment in firms providing telephone services has remained virtually unchanged since 1980, while providers of miscellaneous communications services, such as cable television services, have seen their numbers nearly double in the six years since 1980.

Through the end of the decade, the transportation industry, which is dominated by employment in motor freight services, will respond to the requirements of the state's expanding economy and the heightened profile of Phoenix and Tucson as regional trade and manufacturing centers. Determined to a large degree by the health of the national economy, however, employment in trucking and in air traffic will react to the cyclical swings of the economy. Over the longer term, however, employment in these sectors will weather cyclical economic cycles. Expected growth in airline passenger and cargo traffic will also counter the potential impact of advanced communications systems that may limit growth in business travel by corporate executives.

In public utilities, employment growth relates primarily to increasing consumption of electricity, gas, and water. Reflecting the industry's capital-intensive nature, however, output and productivity increases are not matched by employment increases of the same magnitude. For example, due to the use of automatic controls and larger more efficient equipment, employment does not increase as fast as the production of electric power.

In communication services, certain sectors will continue to register strong employment growth. Because of technological achievements, however, employment expansion will likely not be as great as might be suggested by the ever-increasing variety of available communication services and the number of subscribers to these services. assured, though, is the dynamic era that the communication industry has already entered. The structure of the telephone industry, for example, is continuing to change as a result of competition, regulatory reform, and the application of new technology.

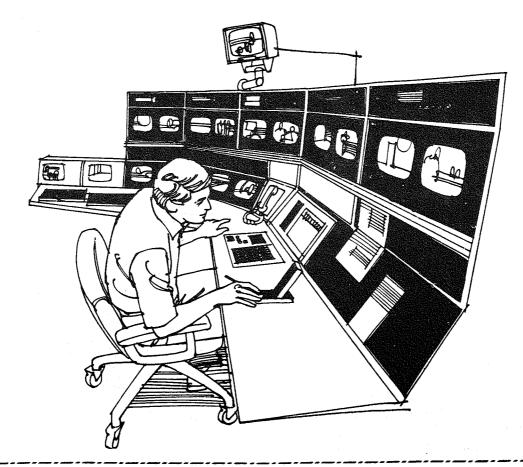
For the balance of the decade, data communications will grow faster than the traditional voice services.



Digital electronic switching, satellite communications, local data networks, and fiber-optic transmission are paving the way for a variety of new data communication services, such as electronic mail, online information systems, and many high-speed business communication services. As business offices become more automated, data transmissions will grow accordingly.

A similar restructuring is also taking place in television and radio broadcasting. Challenging the dominance of network programming is subscription TV and other services brought about by significant technical advances made during recent years. With the advent of communications satellites, cable television has realized significant increases in viewership. In the wings are other program distribution systems vying for acceptance in this rapidly changing arena. One of these is the multiple distribution service (MDS) which relays TV signals from a central station to receivers installed in hotels, office buildings, and individual residences. And then there is the direct broadcast satellite service (DBS) which, as currently conceived, would relay signals directly to receivers of individual subscribers in the home or workplace.

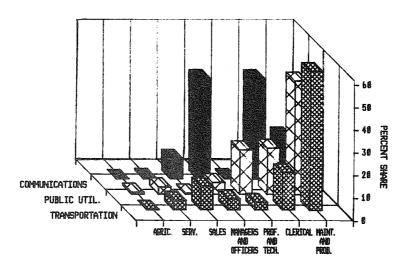
Yet to be exploited are the nonentertainment uses of cable systems, such as for two-way communications, data bank access, and alarm systems. Currently, in response to the public's demand for entertainment and sports programming, the industry is focusing on responding to the market's demand for these ancillary services.



OCCUPATIONAL INFORMATION

Maintenance and production workers dominate employment in transportation, communications, and public utilities. This dominance reflects the numerous truck drivers in the transportation industry and mechanics, installers, and repairers, also prominent in the public utilities sector. The largest single occupation in TCPU is, in fact, tractor trailer truck drivers with employment of 4,500. Other prevalent occupations in this group are bus drivers, delivery and route workers, mechanics, and electrical powerline installers and repairers.

MAJOR OCCUPATIONAL CATEGORIES IN TCPU 1986



Clerical workers represent the second largest occupational group with employment of 15,000 in 1985. Especially concentrated in firms providing communication services, clerical workers are common to all industries, and, for this reason, employment of general office clerks trails only truck drivers, managers, and travel agents. Also numerically prominent in the communication industry are customer service representatives and central office operators (switchboard operators)—further contributing to the size of the clerical category.

Trailing clerical workers is employment of professionals with 12 percent of the industry's total. Most numerous in this category are electrical and electronic engineers, radio and television announcers, and emergency medical technicians.

The occupational distribution of Arizona's TCPU employment, as shown above is consistent with the state's two major metropolitan counties. However, with fewer regional offices and administrative complexes, the "balance of state" or nonmetropolitan counties employ a significant number of maintenance and production workers and fewer clerical personnel.

Employment in each of the seven major occupational classes will continue to expand—although at different rates. Professional and technical

occupations will increase their share of total industry employment, while clerical and production workers will likely lose. Although its share is decreasing, production and maintenance occupations will continue to provide nearly half of the industry's employment. As in other industries, however, employment increases created by a growing demand for services are being tempered by development of more efficient equipment and procedures. These dynamics are particularly evident in maintenance and production occupations, where technological innovation is bringing greater productivity.

OCCUPATIONS WITH THE GREATEST EMPLOYMENT IN TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES

	Employment May 1985	Job Openings* 1985-1989
Truck Drivers, Heavy or Tractor Trailer	4,463	1,068
Truck Drivers, Light-Inc. Delivery and Route	2,119	503
Transportation, Communications, and		
Utilities Operations Mgrs.	1,767	228
Travel Agents	1,680	532
General Office Clerks	1,282	345
Customer Service Representatives, Utilities	1,233	326
Electrical Powerline Installers and Repairers	1,189	184
Bookkeeping, Accounting, and Auditing Clerks	1,117	291
Bus Drivers	1,059	311
First Line Mgrs./Supvs Mechanics/		
Installers/Repairers	1,042	188
Central Office/PBX Installers/Repairers	980	137
Secretaries	974	257
Sales Agents, Selected Business Services	936	224
Reservation and Transportation Ticket Agents	926	284
Telephone/Cable TV Line Installers/Repairers	839	101
General Managers and Top Executives	809	141
Stock Clerks - Stockroom, Warehouse, or Yard	787	144
First Line Supvs. and Mgr./Supvs Clerical	784	148
Transportation Agents, Material Distribution	781	251
Dispatchers - Ex. Police, Fire, and Ambulance	764	137
Mechanic and Repairer Helpers	732	117
Bus and Truck Mechanics and Diesel Engine		.
Specialists	690	145
Electrical and Electronic Engineers	687	69
Announcers, Radio and Television	662	101
Central Office Operators	636	217
Adjustment Clerks	636	172
Railroad Brake, Signal, and Switch Operators	615	185
Machinery Maintenance Mechanics, Water and Powe		
Generation Plants	602	105
Emergency Medical Technicians	551	207
Aircraft Mechanics	497	95
Maintenance Repairers, General Utility	497	71

^{*} Does not include turnover.

The industry's largest occupational group, production and maintenance workers, will total nearly 32,000 in 1989—up from 28,000 in 1985. Job opportunities resulting from this growth and the separation of workers from the labor force will total nearly 6,000 during this period. Demand for truck drivers, alone, will create 1,600 of these openings—by far the strongest demand for any occupation in the industry. Heavy or tractor—trailer drivers outnumber light—duty drivers two—to—one and will also account for about twice as many job openings. It is expected, however, that drivers who haul locally will see their numbers increase more rapidly than long—distance haulers as trucks carry virtually all local freight.

The second largest production and maintenance occupation, electrical powerline installers and repairers, will account for 1,300 workers in 1989. Despite the demand for telephone services and electricity, employment levels will not likely mirror growth in demand for electricity because of technological advances. Demand for line workers, for example, will be suppressed by the use of microwave, fiber optics, and other technologies that require less maintenance. Employment of telephone line installers and repairers, likewise, is affected by the increasing construction of pre-wired buildings, and the modular assembly of telephones.

Clerical occupations account for one of every four employees in TCPU. These occupations are especially prevalent in the communications industry, where, led by customer service representatives and central office operators, they account for nearly half of all employment. Central office operators, however, will see their share of the industry's total employment continue to shrink rapidly. Nationally, employment of central office operators continues to decline—a trend which began more than 25 years ago. In Arizona, increased service demand will somewhat offset reduced labor requirements brought about by such technological innovations as computer—assembled speech.

Openings for clerical occupations will, nonetheless, be a source of a substantial number of job opportunities. Turnover is relatively high in these occupations and many openings will result as employees leave one position to take another.

Representing the largest professional occupation and underlying the increasing share of professional and technical workers in Arizona's TCPU industry is the number of workers with engineering skills. Contributing to this evolution is the introduction of nuclear power generation in Arizona. According to the Bureau of Labor Statistics, nearly half of the nation's nuclear industry work force are engineers, scientists, and technicians.

Other activities in electric power generation that require engineering skills include research and development; system planning; design, construction, and installation; system operation and maintenance; and test engineering.

In the communications industry, engineers plan cable and microwave routes, central office and PBX equipment installations, and communication systems for new buildings, as well as engage in the development of new equipment.

OCCUPATIONAL STRUCTURE

The following tables provide employment estimates and projected employment and job openings for the counties and the state. Graham and Greenlee counties have been combined to avoid disclosure of information about a single firm and because of their close proximity, similar economies, and size.

When using the data, please note the following:

- 1. Industry employment growth in each of the nonmetropolitan counties reflects the rate calculated for the "balance of state" (Arizona less Maricopa and Pima counties).
- 2. The data reflect full- and part-time wage and salary employment only, and do not include self-employed or unpaid family workers.
- 3. Total job openings represent the number of openings due to growth of the industry and separation from the labor force. They do not account for labor turnover, i.e., openings created when a worker changes jobs, leaving the job to be filled by someone else. These vacancies are generally the largest source of job openings.
- 4. To eliminate the possible disclosure of confidential employer information, occupations have been added to the appropriate "All Other" or residual category if less than three firms reported a single occupation; one firm reported more than 50 percent of the occupational estimate, or two firms combined reported more than 75 percent of the occupational estimate. In certain cases, releases have been obtained from large employers to waive the confidentiality criteria.
- 5. The projection technique does not possess the degree of accuracy that may be implied by unrounded numbers.
- 6. Data for occupations with employment of less than five are included in the appropriate "All Other" categories. These occupations are not listed, however, in the summary of "All Other" categories which follows each table.

TRANSPORTATION, COMMUNICATION, AND PUBLIC UTILITIES

ARIZONA

	ESTIMATED MAY 1985 EMPLOYMENT	PERCENT OF MAY 1985 EMPLOYMENT	PROJECTED MAY 1989 EMPLOYMENT	TOTAL JOB OPENINGS 1985-1989
A THE COCURATIONS	3,693	6.2	3,964	491
MANAGERIAL & ADMINISTRATIVE OCCUPATIONS	224	.4	232	21
Financial Managers	86	.1	88	6
Personnel, Training, & Labor Relations Mgrs.	44	.1	44	1
Purchasing Managers Marketing, Advertising, & Public Rel. Mgrs.	233	.4	243	28
Administrative Services Managers	138	.2	141	13
Engineering, Mathematical, & Natural Sciences Mgrs.	160	.3	167	21
Transportation, Communications, & Utilities		_		228
Operations Managers	1,767	2.9	1,920	141
General Managers & Top Executives	809	1.3	883 246	32
All Other Managers & Administrators	232	.4	_	
PROFESSIONAL, PARAPROFESSIONAL, & TECHNICAL	6,944	11.6	7,385	965
Management Support Occupations	1,102	1.8	1,158	158
Accountants & Auditors	292	.5	307	43
Budget Analysts	68	.1	70	9 6
All Other Financial Specialists	68	.1	70	13
Purchasing Agents, Exc. Wholesale, Retail, & Farm	117	.2	121 164	15
Personnel. Training, & Labor Rel. Specialists	158	.3	426	72
All Other Management Support Workers	399	.7		
Engineers & Related Occupations	2,424	4.0	2,560 11	249 1
Engineers	10	.0	35	i
Chemical Engineers	35	.1	28	2
Nuclear Engineers	27 121	.2	128	18
Civil Engineers, Incl. Traffic	687	1.1	726	69
Flectrical & Electronic Engineers	67	.1	69	6
Industrial Engineers, Exc. Safety	27	.0	27	0
Safety Engineers, Exc. Mining	172	.3	182	18
Mechanical Engineers	60	.1	64	6
All Other Engineers	26	.0	26	0
Surveying & Mapping Scientists Engineering & Related Technicians & Technologists	5	.0	5	0
Civil Engineering Technicians & Technologists	66	.1	68	7.
Electrical/Electronic Engineering Technicians	424	.7	452	44 7
Mechanical Engineering Techs.	91	.2	97 203	22
Drafters	191	.3	160	16
Estimators & Drafters, Utilities	153	.3 .1	91	7
Surveying & Manning Techs.	87	.3	188	25
All Other Engineering & Related Technicians	175			
Natural Scientists & Related Workers	141	.2	147	11 2
Geologists, Geophysicists, & Oceanographers	41	.1	42 42	5
All Other Physical Scientists	38	.1	42	4
lifa Scientists	44	.1	18	ō
Physical & Life Science Technicians & Technologist	s 18	.0		
Computer, Math, Research, & Related Occupations	560	.9	5.85 231	51 15
Systems Analysts, Electronic Data Processing	221	.4	145	10
Computer Programmers	139	.2	145	17
Computer Programmer Aides	139	.2	56	9
Mathematical Scientists	54 7	.0	7	ő
All Other Mathematical Scientists	,	•0		
Social Scientists & Religious Occupations	30	.1	31	2 2
Social Scientists, Incl. Urban & Regional Planners	30	.1	31	2
	23	.0	23	1
Law & Related Occupations Lawyers	23	.0	23	1
Teachers, Educators, Librarians, & Related Occupati	ions 85	.1	92	16
Teachers & Instructors, Voc. Ed. & Training	45	.1	51	
Farm & Home Management Advisors	40	.1	41	3

TRANSPORTATION, COMMUNICATION, AND PUBLIC UTILITIES

ARIZONA (CONTD.)

	ESTIMATED MAY 1985 EMPLOYMENT	PERCENT OF MAY 1985 EMPLOYMENT	PROJECTED MAY 1989 EMPLOYMENT	TOTAL JOB OPENINGS 1985-1989
Health Practitioners, Technicians, & Related Emergency Medical Technicians	586	1.0	673	214
All Other Health Professionals,	551	.9	637	207
Paraprofessionals, & Technicians	35	.1	36	7
Writers, Artists, Athletes, & Related	1,633	2.7	1,734	222
Writers & Editors Public Rel. Specialists & Publicity Writers	53	.1	53	6
Reporters & Correspondents	103 148	.2 .2	105	12
Broadcast News Analysts	100	.2	156 105	33 9
Announcers, Radio & Television	662	1.1	723	101
Photographers	71	.1	74	9
Camera Operators, Television & Motion Picture	65	.1	67	5
Broadcast Technicians	293	.5	309	29
Film Editors	37	.1	38	7
Artists & Related Workers	22	.0	22	1
Producers, Directors, Actors, & Entertainers	79	.1	82	10
Other Professional, Paraprofessional, & Technical	360	.6	382	41
Radio Operators	7	.0	7	0
All Other Professional, Paraprofessional, & Technical Workers	252	e	275	
	353	.6	375	41
SALES & RELATED OCCUPATIONS	4,282	7.1	4,816	1,120
First Line Supervisors & Manager/Supervisors	336	.6	366	64
Sales Occupations, Services	3,048	5.1	3,458	834
Sales Agents, Selected Business Services	936	1.6	1,027	224
Travel Agents	1,680	2.8	1,972	532
Sales Agents, Advertising	432	.7	459	78
Sales Occupations, Merchandise & Related Cashiers	898	1.5	992	222
All Other Sales & Related Workers	187 711	.3 1.2	199 793	38 184
CLERICAL & ADMINISTRATIVE SUPPORT OCCUPATIONS	14,920	24.9	16,302	3,614
First Line Supervisors & Manager/Supervisors	784	1.3	851	148
Industry Specific Clerical & Administrative Support	1,684	2.8	1,897	471
Credit Authorizers	12	.0	12	2
Credit Managers	11	.0	11	1
Adjustment Clerks Bill & Account Collectors	636	1.1	682	172
Travel Clerks	88	.1	91	10
Reservation & Transportation Ticket Agents	11 926	.0 1.5	11 1,090	2 284
Selected Secretarial & General Office Occupations	6,370	10.6	6,891	1,670
Secretaries	974	1.6	1,049	257
Stenographers	66	.1	68	14
Receptionists & Information Clerks	310	.5	352	95
Typists	271	.5	288	79
Typists, Word Processing Equipment	85	.1	88	11
Personnel Clerks, Exc. Payroll & Timekeeping Correspondence Clerks	106	.2	110	25
File Clerks	18	.0	18	2
Order Clerks - Materials, Merch., & Service	33 206	.1 .3	34	5
Statistical Clerks	208 237	.4	226 250	59 62
Customer Service Representatives, Utilities	1,233	2.1	1,314	326

TRANSPORTATION, COMMUNICATION, AND PUBLIC UTILITIES

ARIZONA (CONTD.)

	ESTIMATED MAY 1985 EMPLOYMENT	PERCENT OF MAY 1985 EMPLOYMENT	PROJECTED MAY 1989 EMPLOYMENT	TOTAL JOB OPENINGS 1985-1989
Bookkeeping, Accounting, & Auditing Clerks	1,117	1.9	1,231	291
Payroll & Timekeeping Clerks	99	.2	103	13
Billing, Cost & Rate Clerks	333	.6	366	86
General Office Clerks	1,282	2.1	1,394	345
Electronic Data Processing & Other Office	2,232		2,22.	5
Machine Occupations	677	1.1	714	96
Billing, Posting, & Calculating Machine Opers.	80	.1	82	6
Computer Operators, Exc. Peripheral Equipment	125	.2	131	12
Peripheral EDP Equipment Operators	151	.3	160	41
Data Entry Keyers, Exc. Composing	301	•5	321	34
All Other Office Machine Operators	20	.0	20	3
Communications, Mail, & Message Distribution	1,284	2.1	1,382	406
Switchboard Operators	244	. 4	267	76
Directory Assistance Operators	337	.6	355	103
Central Office Operators	636	1.1	689	217
All Other Communication Equipment Operators	36	.1	39	8
Mail Clerks, Exc. Mail Machine Operators &				_
Postal Service	14	.0	14	1
Messengers	17	.0	18	1
Material Distribution & Recording Occupations	3,904	6.5	4,332	802
Dispatchers - Police, Fire, & Ambulance	61	.1	70	14
Dispatchers - Exc. Police, Fire, & Ambulance	764	1.3	853	137
Production, Planning, & Expediting Clerks	232	.4	247	58
Transportation Agents	781	1.3	929	251
Meter Readers, Utilities	396	•7	417	39
Stock Clerks - Stockroom, Warehouse, or Yard	787	1.3	861	144
Traffic, Shipping, & Receiving Clerks	352	.6	391	67
All Other Material Recording/Scheduling/Dist.	531	.9	564	92
All Other Clerical & Administrative Support	217	.4	235	21
SERVICE OCCUPATIONS	1,731	2.9	1,928	449
First Line Supers. & Mgrs./Supers Service	63	.1	67	11
Protective Service Occupations	283	.5	298	25
Detectives & Investigators, Exc. Public	12	.0	12	0
Railroad & Transit Police & Special Agents	33	.1	37	4
Guards & Watch Guards	238	.4	249	21
Food & Beverage Service Occupations	35	.1	37	7
Health Service & Related Occupations	82	.1	93	20
Ambulance Drivers & Attendants - Exc.		_		
Emergency Medical Technicians	82	.1	93	20
Cleaning & Building Service Occupations,				
Exc. Private Households	484	.8	519	102
Selected Personal Service Occupations	728	1.2	857	277
Guides	144	.2	166	50
Baggage Porters & Bellhops	219	.4	259	54
Flight Attendants	360	.6	427	172
Transportation Attendants, Exc. Flight				
& Baggage	5	.0	5	. 1
All Other Service Occupations	56	.2	57	7
AGRICULTURAL, FORESTRY, & RELATED OCCUPATIONS	143	.2	150	22
THE STATE OF THE S	143	• 4	130	22

TRANSPORTATION, COMMUNICATION, AND PUBLIC UTILITIES

ARIZONA (CONTD.)

	ESTIMATED MAY 1985 EMPLOYMENT	PERCENT OF MAY 1985 EMPLOYMENT	PROJECTED MAY 1989 EMPLOYMENT	TOTAL JOB OPENINGS 1985-1989
PRODUCTION, MAINTENANCE, & MATERIAL HANDLING	28,242	47.1	31,731	5,780
First Line Supervisors & Manager/Supervisors- Maintenance/Production/Construction First Line Managers/Supervisors - Mechanics/	1,971	3.3	2,152	421
Installers/Repairers First Line Managers/Supervisors - Construction	1,042	1.7	1,114	188
Trades & Extraction Workers First Line Mgrs./Supers Transport. Operatives	280 378	.5 .6	307 43 3	48 118
First Line Mgrs./Supers Laborers & Helpers	110	.2	128	38
All Other First Line Managers/Supervisors - Maintenance/Production/Construction	161	.3	170	29
Inspectors & Related Occupations	179	.3	194	28
Precision Inspectors, Testers, & Graders	58	.1	60	5
Transportation Inspectors	34	.1	37	4
All Other Inspectors, Testers, & Related	87	.1	97	19
Mechanics, Installers, & Repairers Machinery Maintenance Mechanics, Water & Power	8,614	14.4	9,366	1,264
Generation Plants	602	1.0	663	105
All Other Machinery Maintenance Mechanics	223	. 4	235	24
Machinery Maintenance Workers	141	.2	152	26
Maintenance Repairers, General Utility	497	.8	538	71
Automotive Mechanics	347	.6	378	46
Bus & Truck Mechs., & Diesel Eng. Specialists	690	1.2	787	145
Mobile Heavy Equip. Mechanics, Exc. Engines	35	.1	38	3
Rail Car Repairers	55	.1	64	17
Aircraft Mechanics	4 97	.8	569	95
Aircraft Engine Specialists	106	.2	120	16
Central Office & PBX Installers & Repairers	980	1.6	1,044	137
Frame Wirers, Central Office	144	.2	150	12
Telegraph & Teletype Installers & Maintainers	12	.0	12	0
Signal or Track Switch Maintainers	119	.2	141	33
Radio Mechanics	203	.3	213	20
All Other Communication Equipment Mechanics/				
Installers/Repairers	46	.1	47	1
Telephone & Cable TV Line Installers/Repairers	839	1.4	901	101
Electric Motor, Transformer, & Rel. Repairers	25	.0	26	1
Electronics Repairers, Commercial & Ind. Equip.	254	.4	270	26
Powerhouse, Substation, & Relay Electricians	207	.3	223	24
Electrical Powerline Installers & Repairers	1,189	2.0	1,286	184
Station Installers & Repairers, Telephone	421	.7	452	49
Electrical Installers & Repairers,		•		
Transportation Equipment	117	.2	137	27
All Other Electrical Mechs./Installers/Repairers	236	.4	248	26
Heating, Air Conditioning, & Refrigeration		• ,	2.0	20
Mechanics & Installers	29	.0	30	2
Precision Instrument Repairers	102	.2	109	14
Electric Meter Installers & Repairers	150	.3	157	12
Mechanical Control & Valve Installers & Repairers	79	.1	83	5
Gas Appliance Repairers	97	.2	103	14
Tire Repairers & Changers	42	.1	48	10
All Other Mechanics, Installers, & Repairers	130	.2	142	18
Construction Trades & Extractive Occupations,				
Exc. Material Moving	791	1.3	881	150
Carpenters	91	.2	100	17
Electricians	212	.4	231	35
Painters & Paperhangers - Construction & Maintenance	40	.1	42	3
Plumbers, Pipefitters, & Steamfitters	77	.1	86	12
Pipelayers	19	.0	20	2
Rail-Track Laying & Maintenance Equip. Opers.	199	.3	237	64
Insulation Workers	18	.0	18	0
All Other Construction Trades Workers	129	.2	141	17
Extraction & Related Workers - Incl. Blasters	6	.0	6	0
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TRANSPORTATION, COMMUNICATION, AND PUBLIC UTILITIES

ARIZONA (CONTD.)

	ESTIMATED MAY 1985 EMPLOYMENT	PERCENT OF MAY 1985 EMPLOYMENT	PROJECTED MAY 1989 EMPLOYMENT	TOTAL JOB OPENINGS 1985-1989
Precision Production Occupations	162	.3	173	23
Machinists	144	.2	154	22
All Other Precision Workers	18	.0	19	1
ATT OCHOT TTOOTSTON NOTHER				_
Machine Setters, Operatives, & Tenders	82	.1	87	9
Boiler Operators & Tenders, Low Pressure	.8	.0	8 51	0 7
Painters, Transportation Equipment	47	.1	10	í
All Machine Setters & Set-Up Operators	10 17	.0	18	ī
All Other Machine Operators & Tenders	17	••		
Hand Working, Inc. Assemblers & Fabricators	403	.7	442	70
Welders & Cutters	365	.6	401	65
All Other Hand Workers	38	.1	41	5
	1 126	1.9	1,237	199
Plant & System Occupations	1,136 88	.1	92	5
Water & Liquid Waste Treatment System Opers.	135	.2	153	29
Gas Plant Operators Power Generating Plant Opers., Exc. Aux. Equip.	176	.3	194	36
Auxiliary Equipment Operators, Power	245	.4	276	61
Power Reactor Operators	70	.1	73	8
Power Distributors & Dispatchers	194	.3	204	23
Stationary Engineers	24	.0	25	3
All Other Plant & System Operators	204	.3	220	34
Transportation & Material Moving Machine &				
Vehicle Operators	10,674	17.8	12,428	2,675
Truck Drivers, Heavy or Tractor Trailer	4,463	7.4	5,209	1,068
Truck Drivers, Light - Incl. Delivery & Route	2,119	3.5	2,473	503
Bus Drivers	1,059	1.8	1,237	311
Bus Drivers, School	76	.1	88	21 85
Taxi Drivers & Chauffeurs	307	.5 .5	352 345	103
Railroad Conductors & Yardmasters	290 288	.5	343	119
Locomotive Engineers Rail Yard Engineers, Dinkey Opers. & Hostlers	32	.1	37	11
Locomotive Firers	98	.2	117	26
Railroad Brake, Signal, & Switch Operators	615	1.0	733	185
All Other Rail Vehicle Opers. & Controllers	28	.0	31	5
Aircraft Pilots & Flight Engineers	422	.7	493	90
Service Station Attendants	77	.1	84	10
All Other Transportation & Related Workers	271	.5	312 45	69 4
Crane & Tower Operators	43 273	.1 .5	302	42
Industrial Truck & Tractor Operators	100	.2	106	11
Operating Engineers All Other Transportation & Moving Equip. Operators	26	.0	28	2
All Other Material Moving Equipment Operators	87	.1	93	10
Helpers, Laborers, & Material Movers, Hand	4,230	7.0	4,771	941
Mechanic & Repairer Helpers	732	1.2	777	117
Helpers - Electricians & Powerline Installers	4 87	.8	533	94
Helpers - All Other Construction Trades	421	.7	471	94
Refuse Collectors	482	.8	570	114
Hand Packers & Packagers	232	.4	259 154	49 30
Vehicle Washers & Equipment Cleaners	134 1,742	.2 2.9	2,007	443
All Other Helpers & Laborers	1,742	2.7	2,007	772
TOTAL OF ALL OCCUPATIONS	59,955	100.0	66,276	12,441

Confidential data for certain occupations have been added to "All" or "All Other" categories or collapsed into major occupational classes as follows:

PRODUCTION, MAINTENANCE, & MATERIAL HANDLING

All Other Mechanics, Installers, & Repairers Small Engine Specialists All Other Rail Vehicle Opers. & Controllers Subway & Streetcar Operators

All Other Construction Trades Workers Pipelaying Fitters

TRANSPORTATION, COMMUNICATION, AND PUBLIC UTILITIES

APACHE COUNTY

	ESTIMATED MAY 1985 EMPLOYMENT	PROJECTED MAY 1989 EMPLOYMENT	JOB OPENINGS DUE TO GROWTH 1985-1989	JOB OPENINGS DUE TO SEPARATIONS 1985-1989	TOTAL JOB OPENINGS 1985-1989
MANAGERIAL & ADMINISTRATIVE OCCUPATIONS	63	65	2	0	2
Financial Managers	5	5	0	0	0
Personnel, Training, & Labor Relations Mgrs.	5	5	0	0	0
Transportation, Communications, & Utilities Operations Managers	20	22	2	0	2
General Managers & Top Executives	15	15	ō	Ö	Õ
All Other Managers & Administrators	18	18	0	0	0
PROFESSIONAL, PARAPROFESSIONAL, & TECHNICAL	184	196	12	3	15
Accountants & Auditors	23	26	3	3	6
All Other Financial Specialists	7	7	0	0	0
Purchasing Agents, Exc. Wholesale, Retail, & Far	~m 7	7	0	0	0
Personnel, Training, & Labor Rel. Specialists	8	8	0	0	0
All Other Management Support Workers	6 10	6 11	0 1	0 0	0 1
Electrical & Electronic Engineers Mechanical Engineers	7	8	ĺ	0	1
All Other Engineers	10	10	Ō	ŏ	Ô
Civil Engineering Technicians & Technologists	6	6	0	Ō	Ö
Electrical/Electronic Engineering Technicians	9	10	1	0	1
Mechanical Engineering Techs.	15	17	2	0	2
Drafters	10 7	11	1 1	0	1
Surveying & Mapping Technicians All Other Engineering & Related Technicians	11	8 12	ì	0	1 1
All Physical Scientists	8	8	ō	0	ō
All Life Scientists	3	3	Ö	Ō	Ō
Physical & Life Science Technicians & Technologi		6	0	0	0
All Health Diagnosing & Treating Practitioners	1	1	0	0	0
All Other Professional, Paraprofessional, & Technical Workers	20	31	1	0	1
a reclinical morkers	30	31	1	U ·	r
SALES & RELATED OCCUPATIONS	16	17	1	2	3
All Sales Representatives & Salespersons, Service		9	1	1	2
Cashiers	5 3	5 3	0 0	1	1
All Other Sales & Related Workers	3	3 ,	U	U	0
CLERICAL & ADMINISTRATIVE SUPPORT OCCUPATIONS	235	258	23	26	49
First Line SupersClerical & Admin. Support	11	12	1	1	2
Secretaries Receptionists & Information Clerks	21 8	23 8	2 0	3 0	5 0
Bookkeeping, Accounting, & Auditing Clerks	7	7	0	0	0
Billing, Cost & Rate Clerks	10	11	ĭ	ž	3
General Office Clerks	34	39	5	5	10
All Office Machine Operators	4	4	0	0	0
All Communication Equipment Operators	45	52	7	12	19
Meter Readers, Utilities Stock Clerks - Stockroom, Warehouse, or Yard	16 20	18 23	2 3	1	3
Traffic, Shipping, & Receiving Clerks	10	10	0	0	4 0.
All Other Material Recording/Scheduling/Dist.	23	25	2	ő	2
All Other Clerical & Administrative Support	26	26	ō	ì	ī
SERVICE OCCUPATIONS	29	30	. 1	2	3
All Service Supervisors & Managers	3	3	0	0	0
Guards & Watch Guards	6	6	ŏ	ŏ	ŏ
Cleaning and Building Service Occupations	19	20	1	2	3
All Other Service Workers	1	1	0	0	0

TRANSPORTATION, COMMUNICATION, AND PUBLIC UTILITIES

APACHE COUNTY (CONTD.)

	ESTIMATED MAY 1985 EMPLOYMENT	PROJECTED MAY 1989 EMPLOYMENT	JOB OPENINGS DUE TO GROWTH 1985-1989	JOB OPENINGS DUE TO SEPARATIONS 1985-1989	TOTAL JOB OPENINGS 1985-1989
PRODUCTION, MAINTENANCE, & MATERIAL HANDLING	1,057	1,207	150	77	227
First Line Managers/Supervisors - Mechanics/ Installers/Repairers	38	42	4	3	7
First Line Managers/Supervisors - Construction Trades & Extraction Workers	33	38	5	2	. 7
All Other First Line Managers/Supervisors -	11	12	1	1	2
Maintenance/Production/Construction	4	4	0	0	0
All Other Inspectors, Testers, & Related	7	•			
Machinery Maintenance Mechanics, Water & Power	81	94	13	6	19
Generation Plants	60	69	9	4	13
Maintenance Repairers, General Utility	21	24	3	1	4
Automotive Mechanics	30	33	3	2	5
Bus & Truck Mechs., & Diesel Eng. Specialists	50				_
All Communication Equipment Mechanics/	30	35	5	2	7
Installers/Repairers	12	14	2	0	2
Powerhouse, Substation, & Relay Electricians	43	50	7	3	10
Electrical Powerline Installers & Repairers		32	3	0	3
All Other Electrical Mechs./Installers/Repairer	22	25	3	1	4
Precision Instrument Repairers	6	7	1	0	1
Electric Meter Installers & Repairers	5	5	0	0	0
All Other Mechanics, Installers, & Repairers	36	41	5	3	8
Electricians	50				
Painters & Paperhangers - Construction &	9	9	0	0	0
Maintenance	6	7	1	0	1
Plumbers, Pipefitters, & Steamfitters	41	47	6	2	8
All Other Construction Trades Workers	12	13	1	1	2
Machinists	73	85	12	6	18
Welders & Cutters	9	10	1	0	1
Water & Liquid Waste Treatment System Opers.	52	60	8	5	13
Gas Plant Operators		35	5	3	8
Power Generating Plant Opers., Exc. Aux. Equip.	. 36 76	89	13	10	23
Auxiliary Equipment Operators, Power	7	8	1	0	1
All Other Plant & System Operators	86	95	9	5	14
Truck Drivers, Heavy or Tractor Trailer	4	4	0	0	. 0
All Other Motor Vehicle Operators	9	10	1	0	1
Operating Engineers	2	2	0	0	0
All Other Material Moving Equipment Operators	47	54	7	5	12
Mechanic & Repairer Helpers	21	24	3	1	4
Helpers - Electricians & Powerline Installers	77	90	13	8	21
Helpers - All Other Construction Trades All Other Helpers & Laborers	35	40	5	3	8
TOTAL OF ALL OCCUPATIONS	1,584	1,773	189	110	299

Confidential data for certain occupations have been added to "All" or "All Other" categories or collapsed into major occupational classes as follows:

SALES & RELATED OCCUPATIONS

All Other Sales Representatives & Salespersons, Service Sales Agents, Selected Business Services

CLERICAL & ADMINISTRATIVE SUPPORT OCCUPATIONS

- All Communication Equipment Operators Central Office Operators
- All Other Material Recording/Scheduling/Dist. Dispatchers Exc. Police, Fire, & Ambulance
- All Other Clerical & Administrative Support Adjustment Clerks

PRODUCTION, MAINTENANCE, & MATERIAL HANDLING

- All Communication Equipment Mechanics/ Installers/Repairers Central Office & PBX Installers & Repairers
- All Other Electrical Mechs./Installers/Repairers Telephone & Cable TV Line Installers/Repairers Station Installers & Repairers, Telephone

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All Other Plant & System Operators Stationary Engineers

TRANSPORTATION, COMMUNICATION, AND PUBLIC UTILITIES

COCHISE COUNTY

	ESTIMATED MAY 1985 EMPLOYMENT	PROJECTED MAY 1989 EMPLOYMENT	JOB OPENINGS DUE TO GROWTH 1985-1989	JOB OPENINGS DUE TO SEPARATIONS 1985-1989	TOTAL JOB OPENINGS 1985-1989
MANAGERIAL & ADMINISTRATIVE OCCUPATIONS	91 5	97 5	6 0	3 0	9 0
Financial Managers Marketing, Advertising, & Public Rel. Mgrs. Engineering, Mathematical & Natural Sciences	11	12	1	1	2
Managers Transportation, Communications, & Utilities	13	15	2	1	3
Operations Managers General Managers & Top Executives All Other Managers & Administrators	41 16 5	43 17 5	2 1 0	0 1 0	2 2 0
PROFESSIONAL, PARAPROFESSIONAL, & TECHNICAL Accountants & Auditors All Other Management Support Workers Electrical & Electronic Engineers All Other Engineers Electrical/Electronic Engineering Technicians Drafters All Other Engineering & Related Technicians All Physical Scientists All Life Scientists Systems Analysts, Electronic Data Processing Computer Programmers All Health Professionals, Paraprofessionals, & Technicians Announcers, Radio & Television All Other Professional, Paraprofessional, & Technical Workers SALES & RELATED OCCUPATIONS Sales Agents, Selected Business Services All Other Sales Representatives &	353 11 10 55 12 65 38 65 1 2 17 11 2 31 33	396 11 10 63 13 75 44 74 1 2 19 12 2 36 34	43 0 0 8 1 10 6 9 0 0 2 1 1	14 0 0 2 0 2 2 6 0 0 0 0 0	57 0 0 10 1 1 12 8 15 0 0 2 1
Salespersons, Service All Other Sales & Related Workers	11 3	12 3	1	1 0	2 0
CLERICAL & ADMINISTRATIVE SUPPORT OCCUPATIONS First Line SupersClerical & Admin. Support Secretaries Typists Customer Service Representatives, Utilities Bookkeeping, Accounting, & Auditing Clerks Billing, Cost & Rate Clerks General Office Clerks Computer Operators, Exc. Peripheral Equipment All Other Office Machine Operators All Communication Equipment Operators Dispatchers - Exc. Police, Fire, & Ambulance Meter Readers, Utilities Stock Clerks - Stockroom, Warehouse, or Yard All Other Material Recording/Scheduling/Dist. All Other Clerical & Administrative Support	307 12 24 22 39 19 27 37 24 6 8 24 14 32 5	328 13 25 25 44 20 29 39 27 6 8 25 15 33 5	21 1 3 5 1 2 2 3 0 0 0 1 1 1 0	28 0 3 5 7 2 4 4 2 0 1 0 0 0	49 1 4 8 12 3 6 6 5 0 1 1 1 1 0
SERVICE OCCUPATIONS All Service Supervisors & Managers All Protective Service Workers Cleaning & Building Service Occupations, Exc. Private House	11 1 4	11 1 4	0 0 0	0 0 0	0 0 0
PRODUCTION, MAINTENANCE, & MATERIAL HANDLING	728	808	83	44	127
First Line Managers/Supervisors - Mechanics/ Installers/Repairers First Line Mgrs./Supers Transport. Operatives	22 8	24 8	2 0	1 0	3 0
All Other First Line Managers/Supervisors - Maintenance/Production/Construction	13	14	1	2	3

TRANSPORTATION, COMMUNICATION, AND PUBLIC UTILITIES

COCHISE COUNTY (CONTD.)

	STIMATED MAY 1985 MPLOYMENT	PROJECTED MAY 1989 EMPLOYMENT	JOB OPENINGS DUE TO GROWTH 1985-1989	JOB OPENINGS DUE TO SEPARATIONS 1985-1989	TOTAL JOB OPENINGS 1985-1989
Tootone & Polated	6	6	0	. 0	.0
All Other Inspectors, Testers, & Related	5	5	0	0	0
Maintenance Repairers, General Utility	6	6	0	0	0
Automotive Mechanics	10	11	1	0	1
Bus & Truck Mechs., & Diesel Eng. Specialists	7	8	1	0	1
Mobile Heavy Equip. Mechanics, Exc. Engines	•	_			
All Communication Equipment Mechanics/	11	12	1	0	1
Installers/Repairers	38	44	6	1	7
Telephone & Cable TV Line Installers/Repairers	10	11	1	0	. 1
Electric Motor, Transformer, & Rel. Repairers	83	96	13	6	19
Electrical Powerline Installers & Repairers	64	73	. 9	1	10
All Other Electrical Mechs./Installers/Repairers	68	75	7	3	10
All Other Mechanics, Installers, & Repairers	12	13	1	1	2
Electricians	1	1	0	0	0
All Other Construction Trades Workers	Ā	4	0	0	0
All Precision Metal Workers	2	2	0	0	0
All Machine Operators & Tenders	4	4	0	0	0
All Hand Workers	21	21	3	2	5
Gas Plant Operators	12	14	3 2	1	3
Power Generating Plant Opers., Exc. Aux. Equip.	25	29	4	3	7
Auxiliary Equipment Operators, Power	16	18	2	1	3
Power Distributors & Dispatchers	4	4	0	0	0
All Other Plant & System Operators	61	67	6	4	10
Truck Drivers, Heavy or Tractor Trailer	34	3 <i>7</i>	3	2	5
Truck Drivers, Light - Incl. Delivery & Route	17	18	ī	1	2
All Other Motor Vehicle Operators	5	5	ō	0	0
All Transportation & Related Workers	8	9	i	0	1
Operating Engineers	_	2	ō	Ō	0
All Other Transportation & Moving Equip. Operator	53	61	8	5	13
Helpers - Electricians & Powerline Installers	55 65	72	7	7	14
Hand Packers & Packagers All Other Helpers & Laborers	31	34	3	3	6
TOTAL OF ALL OCCUPATIONS	1,512	1,663	154	90	244

Confidential data for certain occupations have been added to "All" or "All Other" categories or collapsed into major occupational classes as follows:

PROFESSIONAL, PARAPROFESSIONAL, & TECHNICAL

All Other Professional, Paraprofessional, & Technical Workers Broadcast Technicians

SALES & RELATED OCCUPATIONS

All Sales Representatives & Salespersons, Service Travel Agents

PRODUCTION, MAINTENANCE, & MATERIAL HANDLING

- All Other Communication Equipment Mechanics/ Installers/Repairers Central Office & PBX Installers & Repairers
- All Other Electrical Mechs./Installers/Repairers
 Electronics Repairers, Commercial & Ind. Equip.
 Powerhouse, Substation, & Relay Electricians
 Station Installers & Repairers, Telephone
 Electrical Installers & Repairers,
 Transportation Equipment
- All Other Mechanics, Installers, & Repairers
 Machinery Maintenance Mechanics, Water & Power
 Generation Plants
 Aircraft Mechanics
- All Other Motor Vehicle Operators
 Bus Drivers

TRANSPORTATION, COMMUNICATION, AND PUBLIC UTILITIES

COCONINO COUNTY

	ESTIMATED MAY 1985 EMPLOYMENT	PROJECTED MAY 1989 EMPLOYMENT	JOB OPENINGS DUE TO GROWTH 1985-1989	JOB OPENINGS DUE TO SEPARATIONS 1985-1989	TOTAL JOB OPENINGS 1985-1989
MANAGERIAL & ADMINISTRATIVE OCCUPATIONS	90	93	3	o	3
Marketing, Advertising, & Public Rel. Mgrs. Transportation, Communications, & Utilities Operations Managers	5 41	5 43	0 2	0 0	0 2
General Managers & Top Executives All Other Managers & Administrators	27 17	28 17	1 0	0	1 0
PROFESSIONAL, PARAPROFESSIONAL, & TECHNICAL	248	272	24	12	36
Accountants & Auditors	37	40	3	5	8
All Other Financial Specialists	2	2	0	0	0
Purchasing Agents, Exc. Wholesale, Retail, & Fai		9 -	1	1	2
All Other Management Support Workers	5	5	0	0	0
Electrical & Electronic Engineers All Other Engineers	18 12	19 12	1 0	0	1
Electrical/Electronic Engineering Technicians	7	8	1	0 0	0 1
Mechanical Engineering Techs.	19	22	3	0	3
All Other Engineering & Related Technicians	20	21	í	ŏ	í
All Physical Scientists	28	32	4	ĭ	5
All Physical & Life Science Techs.	2	2	0	Ō	. 0
All Social Scientists	1	1	0	0	Ó
All Health Professionals,					
Paraprofessionals, & Technicians	15	16	1	3	4
Announcers, Radio & Television All Other Professional, Paraprofessional,	41	48	7	2	9
& Technical Workers	33	35	2	. 0	2
SALES & RELATED OCCUPATIONS	77	81	4	6	10
First Line Supervisors & Managers - Sales	6	6	Ö	ŏ	0
Sales Agents, Selected Business Services	16	16	0	. 0	Ŏ
Sales Agents, Advertising All Other Sales Representatives &	11	12	1	1	2
Salespersons, Service	21	23	2	3	5
All Other Sales & Related Workers	23	24	1	2	3
CLERICAL & ADMINISTRATIVE SUPPORT OCCUPATIONS	322	345	23	28	51
First Line SupersClerical & Admin. Support	17	17	0	0	ō
Reservation & Transportation Ticket Agents	56	61	5	7	12
Secretaries	21	21	0	1	1
Personnel Clerks, Exc. Payroll & Timekeeping	7	8	1	1	2
File Clerks	9	9	0	2	. 2
Customer Service Representatives, Utilities Bookkeeping, Accounting, & Auditing Clerks	21 25	24	3	3	6
General Office Clerks	25 41	25 44	0	0	0
All Office Machine Operators	3	3	3 0	5 0	8 0
Central Office Operators	18	21	3	4	7
All Other Communication Equipment Operators	4	4	ő	Õ	ó
Dispatchers - Exc. Police, Fire, & Ambulance	6	6	Ŏ	ŏ	ŏ
Meter Readers, Utilities	9	10	ĺ	Ŏ	i
Stock Clerks - Stockroom, Warehouse, or Yard	32	36	4	3	7
All Other Material Recording/Scheduling/Dist.	15	16	1	. 1	2
All Other Clerical & Administrative Support	38	40	2	1	3
SERVICE OCCUPATIONS	61	67	6	9	15
First Line Supers. & Mgrs./Supers Service	1	1	0	Ö	Ō
Cleaning & Building Service Occupations	23	26	3	3	6
Guides	34	37	3	6	9
All Other Service Workers	3	3	0	0	0
PRODUCTION, MAINTENANCE, & MATERIAL HANDLING First Line Managers/Supervisors - Mechanics/ Installers/Repairers	1,430	1,623	193	101	294
First Line Managers/Supervisors - Construction	38	43	5	3	8
Trades & Extraction Workers	46	54	8	4	12
First Line Mgrs./Supers Transport. Operatives	17	18	1	1	2

TRANSPORTATION, COMMUNICATION, AND PUBLIC UTILITIES

COCONINO COUNTY (CONTD.)

	ESTIMATED MAY 1985 EMPLOYMENT	PROJECTED MAY 1989 EMPLOYMENT	JOB OPENINGS DUE TO GROWTH 1985-1989	JOB OPENINGS DUE TO SEPARATIONS 1985-1989	TOTAL JOB OPENINGS 1985-1989
All Other First Line Managers/Supervisors -			_		0
Maintenance/Production/Construction	3	3	0	0 0	1
Precision Inspectors, Testers, & Graders	7	8	1	U	1
Machinery Maintenance Mechanics, Water & Power			0.3	10	31
Generation Plants	129	150	21	4	10
Machinery Maintenance Workers	36	42	6	1	2
Rue & Truck Mechs. & Diesel Eng. Specialists	19	20	1	Ô	ī
Central Office & PBX Installers & Repairers	9	10	1	v	-
All Other Communication Equipment Mechanics/			0	0	0
Inctallers/Renairers	6	6	5	ĭ	6
Telephone & Cable TV Line Installers/Repairers	34	39	1	Ô	1
Powerhouse, Substation, & Relay Electricians	8	9	7	3	10
Flectrical Powerline Installers & Repairers	43	50 16	2	Õ	2
Station Installers & Repairers, Telephone	14	16	2	i	3
Precision Instrument Repairers	14	8	ī	Ō	1
Gae Annliance Repairers	7	146	17	5	22
All Other Mechanics, Installers, & Repairers	129	59	8	4	12
Flectricians	51 19	21	2	0.	2
411 Other Construction Trades Workers	19	21	-		
All Other Construction & Extraction Workers,	1	1	0	0	0
Exc. Helpers	22	25	3	2	5
Machinists	60	70	10	5	15
Welders & Cutters	12	13	1	0	1
All Other Hand Workers	46	53	7	4	11
Gas Plant Operators	• • •	42	6	4	10
Power Generating Plant Opers., Exc. Aux. Equip.	53	62	9	7	16
Auxiliary Equipment Operators, Power	15	16	1	1	2
All Other Plant & System Operators	191	212	21	13	34
Truck Drivers, Heavy or Tractor Trailer All Other Motor Vehicle Operators	70	75	5	5	10
Aircraft Pilots & Flight Engineers	29	32	3	1	4
All Other Transportation & Related Workers	21	24	3	2	5 4
All Material Moving Equipment Operators	32	35	3	1	. 2
Mechanic & Repairer Helpers	14	16	2	.0	46
Helpers - All Construction Trades	166	194	28	18	3
All Other Helpers & Laborers	33	35	2	1	,
TOTAL OF ALL OCCUPATIONS	2,228	2,481	253	156	409

Confidential data for certain occupations have been added to "All" or "All Other" categories or collapsed into major occupational classes as follows:

MANAGERIAL & ADMINISTRATIVE OCCUPATIONS

All Other Managers & Administrators Financial Managers

PROFESSIONAL, PARAPROFESSIONAL, & TECHNICAL

- All Other Engineering & Related Technicians Civil Engineering Technicians & Technologists
- All Health Professionals, Paraprofessionals, & Technicians Emergency Medical Technicians
- All Other Professional, Paraprofessional, & Technical Workers Broadcast Technicians

SALES & RELATED OCCUPATIONS

- All Other Sales Representatives & Salespersons, Service Travel Agents
- All Other Sales & Related Workers Cashiers

CLERICAL & ADMINISTRATIVE SUPPORT OCCUPATIONS

- All Other Material Recording/Scheduling/Dist. Transportation Agents
- All Other Clerical & Administrative Support Payroll & Timekeeping Clerks Billing, Cost & Rate Clerks

TRANSPORTATION, COMMUNICTION, AND PUBLIC UTILITIES

COCONINO COUNTY (CONTD.)

PRODUCTION, MAINTENANCE, & MATERIAL HANDLING

All Other Mechanics, Installers, & Repairers
Maintenance Repairers, General Utility
Automotive Mechanics
Mobile Heavy Equip. Mechanics, Exc. Engines
Aircraft Mechanics
Aircraft Engine Specialists

All Other Construction Trades Workers
Painters & Paperhangers - Construction &
Maintenance
Pipelayers

All Other Motor Vehicle Operators
Truck Drivers, Light - Incl. Delivery & Route
Bus Drivers
Taxi Drivers & Chauffeurs

All Material Moving Equipment Operators Industrial Truck & Tractor Operators Operating Engineers

All Other Helpers & Laborers Vehicle Washers & Equipment Cleaners

TRANSPORTATION, COMMUNICATION, AND PUBLIC UTILITIES

GILA COUNTY

	ESTIMATED MAY 1985 EMPLOYMENT	PROJECTED MAY 1989 EMPLOYMENT	JOB OPENINGS DUE TO GROWTH 1985-1989	JOB OPENINGS DUE TO SEPARATIONS 1985-1989	TOTAL JOB OPENINGS 1985-1989
MANAGERIAL & ADMINISTRATIVE OCCUPATIONS Transportation, Communications, & Utilities	23	24	1	0	1
Operations Managers	12	13	1	0	1
General Managers & Top Executives	8	8	0	0	0
All Other Managers & Administrators	3	3	0	0	0
PROFESSIONAL, PARAPROFESSIONAL, & TECHNICAL	34	36	2	2	4
All Management Support Workers	5	5	0	0	0
All Engineers	1	1	0	0	0
All Engineering & Related Technicians	1	1	0	0	0
All Physical & Life Science Techs. All Health Professionals,	5	5	0	0	0
Paraprofessionals, & Technicians All Other Professional, Paraprofessional,	12	13	1	2	3
& Technical Workers	10	11	1	0	1
SALES & RELATED OCCUPATIONS	3	3	0	0	0
All Sales Representatives & Salespersons, Service	e 2	2	0	0	0
All Other Sales & Related Workers	1	1	0	0	0
CLERICAL & ADMINISTRATIVE SUPPORT OCCUPATIONS	58	59	1	3	4
First Line SupersClerical & Admin. Support	4	4	0	0	0
Secretaries	2	2	0	0	0
Customer Service Representatives, Utilities	13	14	1	1	2
General Office Clerks	10	10	0	1	1
All Communication Equipment Operators	6	6	0	1	1
Meter Readers, Utilities	10	10	0	0	0
All Other Material Recording/Scheduling/Dist.	3	3	0	0	0
All Other Clerical & Administrative Support	10	10	0	0	0
PRODUCTION, MAINTENANCE, & MATERIAL HANDLING All First Line Managers/Supervisors -	161	171	10	5	15
Maintenance/Production/Construction All Communication Equipment Mechanics/	5	5	0	0	0
Installers/Repairers	5	5	0	0	0
Electrical Powerline Installers & Repairers	26	29	3	ĭ	4
All Other Electrical Mechs./Installers/Repairers	T :	16	Õ	õ	Ó
All Other Mechanics, Installers, & Repairers	17	17	ŏ	Ŏ	Õ
All Plant & System Operators	8	9	ì	Õ	ì
Truck Drivers, Heavy or Tractor Trailer	61	67	6	4	10
All Other Motor Vehicle Operators	6	6	0	Õ	0
All Transportation & Related Workers	3	3	Ŏ	Õ	Ö
All Material Moving Equipment Operators	5	5	Õ	ŏ	ŏ
All Helpers & Laborers	9	9	ő	Ö	ő
TOTAL OF ALL OCCUPATIONS	279	293	14	10	24

Confidential data for certain occupations have been added to "All" or "All Other" categories or collapsed into major occupational classes as follows:

PROFESSIONAL, PARAPROFESSIONAL, & TECHNICAL

All Health Professionals, Paraprofessionals, & Technicians Emergency Medical Technicians

All Other Professional, Paraprofessional, & Technical Workers Announcers, Radio & Television

PRODUCTION, MAINTENANCE, & MATERIAL HANDLING

All Other Mechanics, Installers, & Repairers Bus & Truck Mechs., & Diesel Eng. Specialists

All Other Electrical Mechs./Installers/Repairers Telephone & Cable TV Line Installers/Repairers

All Other Plant & System Operators Water & Liquid Waste Treatment System Opers.

All Other Motor Vehicle Operators
Truck Drivers, Light - Incl. Delivery & Route

TRANSPORTATION, COMMUNICATION, AND PUBLIC UTILITIES

GRAHAM AND GREENLEE COUNTIES

	ESTIMATED MAY 1985 EMPLOYMENT	PROJECTED MAY 1989 EMPLOYMENT	JOB OPENINGS DUE TO GROWTH 1985-1989	JOB OPENINGS DUE TO SEPARATIONS 1985-1989	TOTAL JOB OPENINGS 1985-1989
MANAGERIAL & ADMINISTRATIVE OCCUPATIONS General Managers & Top Executives All Other Managers & Administrators	13 9 4	13 9 4	0 0 0	0 0	0 0 0
PROFESSIONAL, PARAPROFESSIONAL, & TECHNICAL All Management Support Workers All Other Professional, Paraprofessional,	21 1	24 1	3	1	4 0
& Technical Workers SALES & RELATED OCCUPATIONS	20 4	23 4	3 0	1	4 0
All Sales Representatives & Salespersons, Service All Other Sales & Related Workers	•	2 2	0	0	0
CLERICAL & ADMINISTRATIVE SUPPORT OCCUPATIONS Bill & Account Collectors Secretaries All Office Machine Operators	27 5 2 3	27 5 2 3	0 0 0	0 0 0 0	0 0 0 0
All Communication Equipment Operators All Material Recording/Scheduling/Dist. All Other Clerical & Administrative Support	3 4 10	3 4 10	0 0 0	0 0 0	0 0 0
SERVICE OCCUPATIONS All Cleaning/Building Service, Exc. Private House	3 3	3	o o	0 0	0
PRODUCTION, MAINTENANCE, & MATERIAL HANDLING All First Line Managers/Supervisors -	100	106	6	2	8
Maintenance/Production/Construction All Communication Equipment Mechanics/	13	13	0	0	C
Installers/Repairers All Electrical Mechs./Installers/Repairers All Mechanics, Installers, & Repairers All Construction Trades Workers	1 8 16 13	1 8 17 14	0 0 1 1	0 0 0 0	0 0 1 1
All Hand Workers Truck Drivers, Heavy or Tractor Trailer All Other Motor Vehicle Operators All Material Moving Equipment Operators	1 29 5 1	1 32 5 1	0 3 0 0	0 1 0 0	0 4 0 0
Mechanic & Repairer Helpers All Other Helpers & Laborers	11 2	12 2	0	1 0	2
TOTAL OF ALL OCCUPATIONS	168	177	9	3	12

Confidential data for certain occupations have been added to "All" or "All Other" categories or collapsed into major occupational classes as follows:

PROFESSIONAL, PARAPROFESSIONAL, & TECHNICAL

All Other Professional, Paraprofessional, & Technical Workers Announcers, Radio & Television PRODUCTION, MAINTENANCE, & MATERIAL HANDLING

All Construction Trades Workers
Telephone & Cable TV Line Installers/Repairers

TRANSPORTATION, COMMUNICATION, AND PUBLIC UTILITIES

LA PAZ COUNTY

	ESTIMATED MAY 1985 EMPLOYMENT	PROJECTED MAY 1989 EMPLOYMENT	JOB OPENINGS DUE TO GROWTH 1985~1989	JOB OPENINGS DUE TO SEPARATIONS 1985-1989	TOTAL JOB OPENINGS 1985-1989
MANAGERIAL & ADMINISTRATIVE OCCUPATIONS	7	7	0	0	0
PROFESSIONAL, PARAPROFESSIONAL, & TECHNICAL All Health Professionals,	14	15	1	1	2
Paraprofessionals, & Technicians All Other Professional, Paraprofessional,	6	6	0	1	1
& Technical Workers	8	9	1	0	1
SALES & RELATED OCCUPATIONS	5	5	0	0	0
All Sales Representatives & Salespersons, Service	e 2	2	0	0	0
All Other Sales & Related Workers	3	3	0	0	0
CLERICAL & ADMINISTRATIVE SUPPORT OCCUPATIONS	12	12	0	0	0
Customer Service Representatives, Utilities	7	7	0	0	0
All Office Machine Operators	1	1	0	0	0
All Material Recording/Scheduling/Dist.	2	2	0	0	0
All Other Clerical & Administrative Support	2	2	0	0	0
SERVICE OCCUPATIONS	8	8	0	1	1
All Food Service Workers	8	8	Ō	1	ī
PRODUCTION, MAINTENANCE, & MATERIAL HANDLING All First Line Managers/Supervisors ~	37	40	3	0	3
Maintenance/Production/Construction All Communication Equipment Mechanics/	5	5	0	0	0
Installers/Repairers	6	7	1	0	1
All Electrical Mechs./Installers/Repairers	24	26	2	0	2
All Other Mechanics, Installers, & Repairers	2	2	ō	ő	õ
TOTAL OF ALL OCCUPATIONS	83	87	4	2	6

Confidential Data for certain occupations have been added to "All" or "All Other" categories or collapsed into major occupational classes as follows:

PROFESSIONAL, PARAPROFESSIONAL, & TECHNICAL

All Other Professionals, Paraprofessionals, & Technicians Emergency Medical Technicians

All Other Professional, Paraprofessional, & Technical Workers Announcers, Radio & Television

SERVICE OCCUPATIONS

All Other Food Service Workers Food & Beverage Service Occupations

PRODUCTION, MAINTENANCE, & MATERIAL HANDLING

All Communication Equipment Mechanics/ Installers/Repairers Central Office & PBX Installers & Repairers

All Electrical Mechs./Installers/Repairers Electrical Powerline Installers & Repairers Station Installers & Repairers, Telephone

TRANSPORTATION, COMMUNICATION, AND PUBLIC UTILITIES

MARICOPA COUNTY

	ESTIMATED MAY 1985 EMPLOYMENT	PROJECTED MAY 1989 EMPLOYMENT	JOB OPENINGS DUE TO GROWTH 1985-1989	JOB OPENINGS DUE TO SEPARATIONS 1985-1989	TOTAL JOB OPENINGS 1985-1989
MANAGERIAL & ADMINISTRATIVE OCCUPATIONS	2,610	2,834	224	186	410
Financial Managers	161	169	8	13	21
Personnel, Training, & Labor Relations Mgrs.	66	68	2	4	6
Purchasing Managers	32	32	0	1	1
Marketing, Advertising, & Public Rel. Mgrs.	159	167	8	14	22
Administrative Services Managers	109	112	3	10	13
Engineering, Mathematical & Natural Sciences Mgi Transportation, Communications, & Utilities	rs. 118	123	5	12	17
Operations Managers	1,360	1,488	128	69	197
General Managers & Top Executives	438	494	56	46	102
All Other Managers & Administrators	167	181	14	. 17	31
PROFESSIONAL, PARAPROFESSIONAL, & TECHNICAL	4,515	4,782	267	390	657
Accountants & Auditors	155	163	8	17	25
Budget Analysts	62	64	2	7	9
All Other Financial Specialists	50	52	2	3	.5
Purchasing Agents, Exc. Wholesale, Retail, & Far		80	3	7	10
Personnel, Training, & Labor Rel. Specialists	121 289	127 307	6 18	9 36	15 54
All Other Management Support Workers Chemical Engineers	28	28	0	1	1
Nuclear Engineers	27 27	28	1	i	2
Civil Engineers, Incl. Traffic	105	112	7	11	18
Electrical & Electronic Engineers	412	432	20	21	41
Industrial Engineers, Exc. Safety	63	65	2	4	6
Safety Engineers, Exc. Mining	22	22	ō	ó	ŏ
Mechanical Engineers	145	153	8	8	16
All Other Engineers	28	29	1	0	1
Surveying & Mapping Scientists	20	20	0	0	0
Civil Engineering Technicians & Technologists	46	47	1	5	6
Electrical/Electronic Engineering Technicians	233	244	11	11	22
Mechanical Engineering Techs.	46	47	1	1	- 2
Drafters	106	111	5	7	12
Estimators & Drafters, Utilities	131	137	6	9	15
Surveying & Mapping Techs.	54	56	2	3	5
All Other Engineering & Related Technicians	53	55 30	2	4	6
Geologists, Geophysicists, & Oceanographers	29 11	30 11	1 0	1	2
All Other Physical Scientists Life Scientists	36	37	1	0 3	0 4
All Other Physical & Life Science Techs.	4	4	Ō	0	0
Systems Analysts, Electronic Data Processing	152	159	7	5	12
Computer Programmers	108	113	5	4	9
Computer Programmer Aides	136	143	7	10	17
Mathematical Scientists	50	52	2	7	9
Social Scientists, Including Urban & Regional					
Planners	28	29	1	1	2
Lawyers	18	18	0	1	1
Farm & Home Management Advisors	36	37	1	2	3
All Other Teachers & Instructors	33	39	6	6	12
Health Practitioners, Technicians, & Related	21	21	0	4	. 4
Emergency Medical Technicians	334	398	64	76	140
All Other Health Professionals,	• •			_	_
Paraprofessionals & Technicians	10	11	1	2	3
Writers & Editors	34	34	0	.5	.5
Public Rel. Specialists & Publicity Writers Reporters & Correspondents	83 109	85 115	2 6	10 19	12
Broadcast News Analysts	55	58	3	3	25 6
Announcers, Radio & Television	282	298	16	19	. 35
Photographers	46	48	2	4	- 35 6
Camera Operators, Television & Motion Picture	33	34	1	2	3
Broadcast Technicians	196	206	10	10	20
Film Editors	23	24	1	4	5
Artists & Related Workers	12	12	Ô	ī	1
Producers, Directors, Actors, & Entertainers	67	70	3	7	10
All Other Professional, Paraprofessional,		· -	_	•	
& Technical Workers	296	317	21	19	40

TRANSPORTATION, COMMUNICATION, AND PUBLIC UTILITIES

MARICOPA COUNTY (CONTD.)

	ESTIMATED MAY 1985 EMPLOYMENT	PROJECTED MAY 1989 EMPLOYMENT	JOB OPENINGS DUE TO GROWTH 1985-1989	JOB OPENINGS DUE TO SEPARATIONS 1985-1989	TOTAL JOB OPENINGS 1985-1989
SALES & RELATED OCCUPATIONS First Line Supervisors & Managers - Sales Sales Agents, Selected Business Services Travel Agents Sales Agents, Advertising Cashiers All Other Sales & Related Workers	3,214	3,658	444	469	913
	252	280	28	31	59
	701	777	76	109	185
	1,217	1,452	235	178	413
	292	307	15	37	52
	108	119	11	18	29
	644	723	79	96	175
CLERICAL & ADMINISTRATIVE SUPPORT OCCUPATIONS First Line SupersClerical & Admin. Support Adjustment Clerks Bill & Account Collectors Reservation & Transportation Ticket Agents Secretaries Stenographers Receptionists & Information Clerks Typists Typists, Word Processing Equipment Personnel Clerks, Exc. Payroll & Timekeeping File Clerks Order Clerks - Materials, Merch., & Service Statistical Clerks Customer Service Representatives, Utilities Bookkeeping, Accounting, & Auditing Clerks Billing, Cost & Rate Clerks General Office Clerks Billing, Posting, & Calculating Machine Opers. Computer Operators, Exc. Peripheral Equipment Peripheral EDP Equipment Operators Data Entry Keyers, Exc. Composing All Other Office Machine Operators Switchboard Operators Directory Assistance Operators Central Office Operators All Other Communication Equipment Operators Mail Clerks Messengers Dispatchers - Police, Fire, & Ambulance Dispatchers - Exc. Police, Fire, & Ambulance Production, Planning, & Expediting Clerks Transportation Agents Meter Readers, Utilities Stock Clerks - Stockroom, Warehouse, or Yard Traffic, Shipping, & Receiving Clerks All Other Material Recording/Scheduling/Dist. All Other Clerical & Administrative Support	10,415 528 482 52 780 679 46 262 122 62 84 16 107 175 799 794 185 793 43 72 140 208 16 202 257 300 31 8 12 37 574 156 764 205 394 285 496 195	11,505 583 521 54 930 741 48 303 129 64 87 117 184 842 897 57 210 869 45 75 148 222 16 224 271 316 34 81 34 652 167 911 215 432 323 526 210	1,090 55 39 2 150 62 2 41 7 2 3 1 10 9 43 103 3 25 76 2 3 8 14 0 22 14 16 3 0 1 7 78 11 147 10 38 38 30 15	1,688 64 99 6 103 147 9 51 30 6 19 2 21 37 169 148 7 35 161 3 48 68 79 5 1 0 4 43 30 102 13 40 27 58 5	2,778 119 138 8 253 209 11 92 37 8 22 3 31 46 212 251 10 60 237 5 7 38 25 3 70 82 95 8 1 11 121 41 249 23 78 65 88 20
SERVICE OCCUPATIONS First Line Supers. & Mgrs./Supers Service Detectives & Investigators, Exc. Public Guards & Watch Guards All Other Protective Service Workers All Health Service Workers Cleaning & Building Service Occupations Guides Baggage Porters & Bellhops All Other Service Workers AGRICULTURAL, FORESTRY, & RELATED OCCUPATIONS	1,287	1,453	166	203	369
	48	52	4	7	11
	10	10	0	0	0
	205	215	10	10	20
	23	26	3	0	3
	15	17	2	1	3
	307	331	24	47	71
	78	93	15	16	31
	212	252	40	14	54
	389	457	68	108	176

TRANSPORTATION, COMMUNICATION, AND PUBLIC UTILITIES

MARICOPA COUNTY (CONTD.)

	ESTIMATED MAY 1985 EMPLOYMENT	PROJECTED MAY 1989 EMPLOYMENT	JOB OPENINGS DUE TO GROWTH 1985-1989	JOB OPENINGS DUE TO SEPARATIONS 1985-1989	TOTAL JOE OPENINGS 1985-1989
PRODUCTION, MAINTENANCE, & MATERIAL HANDLING	18,432	20,925	2,493	1,648	4,141
First Line Managers/Supervisors - Mechanics/ Installers/Repairers	626	666	40	80	120
First Line Managers/Supervisors - Construction					
Trades & Extraction Workers	141	153	12	12	24
First Line Mgrs./Supers Transport. Operatives		338	50	54	104
First Line Mgrs./Supers Laborers & Helpers	96	113	17	18	35
All Other First Line Managers/Supervisors - Maintenance/Production/Construction	39	41	•	4	_
Precision Inspectors, Testers, & Graders	24	24	2 0	4 2	6
Transportation Inspectors	18	20	2	0	2 2
All Other Inspectors, Testers, & Related	68	78	10	9	19
Machinery Maintenance Mechanics, Water & Power	• •			•	
Generation Plants	276	290	14	23	37
Maintenance Repairers, General Utility	271	288	17	18	35
Automotive Mechanics	194	215	21	12	33
Bus & Truck Mechs., & Diesel Eng. Specialists	471	548	77	37	114
Mobile Heavy Equip. Mechanics, Exc. Engines	7	7	0	0	0
Rail Car Repairers	51	60	9	8	17
Aircraft Mechanics	252	299	47	13	60
Aircraft Engine Specialists	60 605	70	10	1	11
Central Office & PBX Installers & Repairers Frame Wirers, Central Office	695 93	734 98	39 5	56	95 10
Signal or Track Switch Maintainers	118	140	22	5 11	10 33
Radio Mechanics	123	129	6	7	13
All Other Communication Equipment Mechanics/	-20		· ·	,	13
Installers/Repairers	37	37	0	0	0
Telephone & Cable TV Line Installers/Repairers	414	436	22	22	44
Electric Motor, Transformer, & Rel. Repairers	10	10	0	0	0
Electronics Repairers, Commercial & Ind. Equip.	98	103	5	4	9
Powerhouse, Substation, & Relay Electricians	90	95	5	5	10
Electrical Powerline Installers & Repairers	570	601	31	47	78
Station Installers & Repairers, Telephone	249	262	13	13	26
All Other Electrical Mechs./Installers/Repairers Heating, Air Conditioning, & Refrigeration	299	328	29	20	49
Mechanics & Installers	22	23	1	1	2
Precision Instrument Repairers	56	58	2	5	7
Electric Meter Installers & Repairers	91	95	4	4	8
Mechanical Control & Valve Installers &				·	•
Repairers	20	20	0	0	0
Tire Repairers & Changers	30	35	5	3	8
All Other Mechanics, Installers, & Repairers	417	445	28	28	56
Carpenters	74	83	9	8	17
Electricians Painters & Paperhangers - Construction &	86	90	4	8	12
Maintenance	20	21	1	1	2
Plumbers, Pipefitters, & Steamfitters	53	60	7	3	10
Pipelayers	11	11	ó	i	10
Insulation Workers	13	13	Ö	Ô	ō
All Other Construction Trades Workers	21	24	. 3	ĭ	4
All Other Construction & Extraction Workers,					
Exc. Helpers	200	238	38	26	64
Machinists	87	91	4	8	12
All Other Precision Workers	7	8	1	0	1
Painters, Transportation Equipment	17	19	2	1	3
All Other Machine Setters & Set-Up Operators	9	. 9	0	1	1
All Machine Operators & Tenders Welders & Cutters	10	11	1	0	1
All Other Hand Workers	163 5	172 5	9 0	14	23
Water & Liquid Waste Treatment System Opers.	46	47	1	0 1	0 2
Power Generating Plant Opers., Exc. Aux. Equip.	75	78	3	9	12
Auxiliary Equipment Operators, Power	76	80	4	9	13
Power Reactor Operators	65	68	3	5	8
		-	-	-	•

TRANSPORTATION, COMMUNICATION, AND PUBLIC UTILITIES

MARICOPA COUNTY (CONTD.)

	ESTIMATED MAY 1985 EMPLOYMENT	PROJECTED MAY 1989 EMPLOYMENT	JOB OPENINGS DUE TO GROWTH 1985-1989	JOB OPENINGS DUE TO SEPARATIONS 1985-1989	TOTAL JOB OPENINGS 1985-1989
Power Distributors & Dispatchers	161	169	8	12	20
Stationary Engineers	23	24	1	2	3
All Other Plant & System Operators	128	133	5	13	18
Truck Drivers, Heavy or Tractor Trailer	3,297	3,913	616	244	860
Truck Drivers, Light - Incl. Delivery & Rou	ite 1,597	1,895	298	116	414
Bus Drivers	696	829	133	90	223
Taxi Drivers & Chauffeurs	154	183	29	21	50
All Other Motor Vehicle Operators	53	63	10	7	17
Railroad Conductors & Yardmasters	287	342	55	48	103
Locomotive Engineers	287	342	55	64	119
Rail Yard Engineers, Dinkey Opers. & Hostle		34	5	6	11
Locomotive Firers	98	117	19	7	26
Railroad Brake, Signal, & Switch Operators	612	730	118	67	185
All Other Rail Vehicle Opers. & Controllers		13	2	1	3
Aircraft Pilots & Flight Engineers	308	367	59	16	75
Service Station Attendants	46	52	6	2	8
All Other Transportation & Related Workers	188	220	32	20	52
Crane & Tower Operators	39	41	2	2	4
Industrial Truck & Tractor Operators	197	221	24	12	36
Operating Engineers	57	59	2	4	6 1
All Other Transportation & Moving Equip. Op	erators 16	17	1	0	1
All Material Moving Equipment Operators	66	71	5	4	9
Mechanic & Repairer Helpers	462	485	23	49	72
Helpers - Electricians & Powerline Installe	ers 240	253	13	26	39
Helpers - All Other Construction Trades	151	159	8	16	24
Refuse Collectors	442	527	85	26	111
Vehicle Washers & Equipment Cleaners	95	112	17 -	9	26
All Other Helpers & Laborers	1,340	1,567	227	146	373
TOTAL OF ALL OCCUPATIONS	40,614	45,305	4,691	4,599	9,290

Confidential data for certain occupations have been added to "All" or "All Other" categories or collapsed into major occupational classes as follows:

PROFESSIONAL, PARAPROFESSIONAL, & TECHNICAL

- All Other Engineers Engineers
- All Other Teachers & Instructors Teachers & Instructors, Voc. Ed. & Training

CLERICAL & ADMINISTRATIVE SUPPORT OCCUPATIONS

All Other Clerical & Administrative Support Credit Authorizers

SERVICE_OCCUPATIONS

- All Other Protective Service Workers Railroad & Transit Police & Special Agents
- All Health Service Workers
 Ambulance Drivers & Attendants Exc.
 Emergency Medical Technicians
- All Other Service Workers Flight Attendants

PRODUCTION, MAINTENANCE, & MATERIAL HANDLING

- All Other Communication Equipment Mechanics/ Installers/Repairers Telegraph & Teletype Installers & Maintainers
- All Other Electrical Mechs./Installers/Repairers
 Electrical Installers & Repairers,
 Transportation Equipment
- All Other Mechanics, Installers, & Repairers
 Machinery Maintenance Workers
- All Other Construction & Extraction Workers, Exc. Helpers Rail-Track Laying & Maintenance Equip. Opers. Extraction & Related Workers - Incl. Blasters
- All Other Hand Workers
 Hand Working, Inc. Assemblers & Fabricators
- All Other Motor Vehicle Operators Bus Drivers, School
- All Other Rail Vehicle Opers. & Controllers Subway & Streetcar Operators
- All Other Helpers & Laborers Hand Packers & Packagers

TRANSPORTATION, COMMUNICATION, AND PUBLIC UTILITIES

MOHAVE COUNTY

	ESTIMATED MAY 1985 EMPLOYMENT	PROJECTED MAY 1989 EMPLOYMENT	JOB OPENINGS DUE TO GROWTH 1985-1989	JOB OPENINGS DUE TO SEPARATIONS 1985-1989	TOTAL JOE OPENINGS 1985-1989
MANAGERIAL & ADMINISTRATIVE OCCUPATIONS Transportation, Communications, & Utilities	64	65	1	0	1
Operations Managers	18	18	0	0	0
General Managers & Top Executives	25	26	1	0	0 1
All Other Managers & Administrators	21	21	ō	ő	ō
PROFESSIONAL, PARAPROFESSIONAL, & TECHNICAL Accountants & Auditors	128	136	8	5	13
All Other Financial Specialists	7 1	7 1	0	0	0
All Other Management Support Workers	11	11	0	0	0
Electrical & Electronic Engineers	6	6	Ö	0	0
All Other Engineers	14	16	2	i	3
Drafters	7	7	0	Ō	ō
All Other Engineering & Related Technicians	19	19	0	0	0
All Teachers & Instructors All Health Professionals,	1	1	0	0	0
Paraprofessionals, & Technicians	15	16	1	3	4
Broadcast News Analysts	6	7	1	0	1
Announcers, Radio & Television All Other Professional, Paraprofessional,	23	27	4	1	5
& Technical Workers	18	18	0	0	0
SALES & RELATED OCCUPATIONS	108	117	9	10	19
First Line Supervisors & Managers - Sales	9	9	0	0	0
Sales Agents, Selected Business Services Sales Agents, Advertising	29 17	32	3	3	6
All Sales Representatives & Salespersons, Service		20 31	3 3	2	5
Cashiers	19	19	. 0	3 2	6 2
All Other Sales & Related Workers	6	6	ŏ	0	0
CLERICAL & ADMINISTRATIVE SUPPORT OCCUPATIONS	290	311	21	29	50
First Line SupersClerical & Admin. Support	30	32	2	2	4
Adjustment Clerks	6	6	ō	` 0	ō
Bill & Account Collectors	10	11	ì	i	2
Secretaries	26	27	1	2	3
Typists Customer Service Representatives, Utilities	18	21	3	4	7
Bookkeeping, Accounting, & Auditing Clerks	12 21	13	1	ļ	2
Billing, Cost & Rate Clerks	12	21 12	0 0	1	1
General Office Clerks	26	27	1	4	0 5
Data Entry Keyers, Exc. Composing	7	 7	Ô	ō	0
All Other Office Machine Operators	3	3	ō	ŏ	Ö
Central Office Operators	47	55	8	12	20
All Other Communication Equipment Operators	2	2	0	0	0
Meter Readers, Utilities Stock Clerks - Stockroom, Warehouse, or Yard	18	20	2	0	2
All Other Material Recording/Scheduling/Dist.	11 11	12 11	1	0	1
All Other Clerical & Administrative Support	30	31	0 1	0 2	0 3
SERVICE OCCUPATIONS	33	36	3	5	8
All Protective Service Workers	3	3	0	Ö	Õ
All Cleaning/Building Service, Exc.					
Private House All Other Service Workers	25	28	3	4	7
	5	5	0	1	1
PRODUCTION, MAINTENANCE, & MATERIAL HANDLING First Line Managers/Supervisors - Mechanics/	430	465	35	15	50
Installers/Repairers	25	26	1	1	2
All Other First Line Managers/Supervisors -	~~	20	ī	1	2
Maintenance/Production/Construction	17	18	1	2	3
All Inspectors, Testers, & Related	4	4	ō	ō	Õ
Machinery Maintenance Mechanics, Water & Power	_				-
Generation Plants Maintenance Repairers, General Utility	5	5	0	0	. 0
	9	9	0	0	0

TRANSPORTATION, COMMUNICATION, AND PUBLIC UTILITIES

MOHAVE COUNTY (CONTD.)

	ESTIMATED MAY 1985 EMPLOYMENT	PROJECTED MAY 1989 EMPLOYMENT	JOB OPENINGS DUE TO GROWTH 1985-1989	JOB OPENINGS DUE TO SEPARATIONS 1985-1989	TOTAL JOB OPENINGS 1985-1989
Automotive Mechanics	7	7	0	0	0
Bus & Truck Mechs., & Diesel Eng. Specialists	10	11	1	0	1
Central Office & PBX Installers & Repairers	11	12	1	0	1
All Other Communication Equipment Mechanics/					
Installers/Repairers	7	7	0	0	0
Telephone & Cable TV Line Installers/Repairers	34	39	5	1	6
Electrical Powerline Installers & Repairers	29	33	. 4	1	5
All Other Electrical Mechs./Installers/Repairers	23	26	3	1	4
Gas Appliance Repairers	5	5	0	0	0
All Other Mechanics, Installers, & Repairers	20	20	0	0	0
All Construction Trades Workers	18	19	1	0	1
All Precision Workers	1	1	0	0	0
All Hand Workers	1	1	0	0	0
Water & Liquid Waste Treatment System Opers.	10	11	1	0	1
All Other Plant & System Operators	1	1	0	0	0
Truck Drivers, Heavy or Tractor Trailer	83	92	9	6	15
All Other Motor Vehicle Operators	27	29	2	2	4
All Transportation & Related Workers	25	27	2	0	2
All Transportation & Moving Equip. Operators	1	1	0	0	0
All Material Moving Equipment Operators	1	1	0	0	0
Mechanic & Repairer Helpers	10	11	1	0	1
Refuse Collectors	22	24	2	0	2
All Other Helpers & Laborers	24	25	1	1	2
TOTAL OF ALL OCCUPATIONS	1,053	1,130	77	64	141

Confidential data for certain occupations have been added to "All" or "All Other" categories or collapsed into major occupational classes as follows:

PROFESSIONAL, PARAPROFESSIONAL, & TECHNICAL

All Other Engineering & Related Technicians Electrical/Electronic Engineering Technicians

Alî Health Professionals, Paraprofessionals, & Technicians Emergency Medical Technicians

SALES & RELATED OCCUPATIONS

All Sales Representatives & Salespersons, Service Travel Agents

CLERICAL & ADMINISTRATIVE SUPPORT OCCUPATIONS

All Other Material Recording/Scheduling/Dist. Dispatchers - Exc. Police, Fire, & Ambulance

All Other Clerical & Administrative Support Reservation & Transportation Ticket Agents

PRODUCTION, MAINTENANCE, & MATERIAL HANDLING

All Other Electrical Mechs./Installers/Repairers Station Installers & Repairers, Telephone

All Other Mechanics, Installers, & Repairers Aircraft Mechanics

All Construction Trades Workers Electricians

All Other Motor Vehicle Operators
Truck Drivers, Light - Incl. Delivery & Route
Taxi Drivers & Chauffeurs

All Transportation & Related Workers Aircraft Pilots & Flight Engineers Service Station Attendants

All Other Helpers & Laborers Helpers - Electricians & Powerline Installers

TRANSPORTATION, COMMUNICATION, AND PUBLIC UTILITIES

NAVAJO COUNTY

	ESTIMATED MAY 1985 EMPLOYMENT	PROJECTED MAY 1989 EMPLOYMENT	JOB OPENINGS DUE TO GROWTH 1985-1989	JOB OPENINGS DUE TO SEPARATIONS 1985-1989	TOTAL JOB OPENINGS 1985-1989
MANAGERIAL & ADMINISTRATIVE OCCUPATIONS	63	67	4	2	6
Transportation, Communications, & Utilities Operations Managers	32	35	3	1	4
General Managers & Top Executives	16	17	1	1	2 0
All Other Managers & Administrators	15	15	0	U	U
PROFESSIONAL, PARAPROFESSIONAL, & TECHNICAL	97 1	108 1	11 0	6 0	17 0
All Financial Specialists All Management Support Workers	45	52	7	6	13
Electrical & Electronic Engineers	11	12	1	0	1
All Other Engineers	.9	10	1	0 0	1 0
All Engineering & Related Technicians All Health Diagnosing & Treating	12	12	0	U	U
Practitioners	1	1	0	0	0
Announcers, Radio & Television	13	15	2	0	2
All Other Professional, Paraprofessional,	5	5	0	0	0
& Technical Workers	5	3	U	Ū	
SALES & RELATED OCCUPATIONS	10	10	0	0	0 .
Sales Agents, Advertising All Other Sales & Related Workers	6 4	6 4	0	0 0	0 0
	•	•		_	
CLERICAL & ADMINISTRATIVE SUPPORT OCCUPATIONS	317	351	34	41 1	75 2
First Line SupersClerical & Admin. Support Bill & Account Collectors	13 6	14 6	1 0	0	0
Secretaries	31	34	3	3	6
Order Clerks - Materials, Merch., & Service	38	44	6	8	14
Statistical Clerks Customer Service Representatives, Utilities	6 24	7 27	1 3	1 4	2 7
Bookkeeping, Accounting, & Auditing Clerks	17	17	Õ	Õ	ó
Payroll & Timekeeping Clerks	10	11	1	1	2
General Office Clerks	69	78	9 0	11 0	20 0
All Office Machine Operators All Communication Equipment Operators	1 32	1 37	5	8	13
Meter Readers, Utilities	12	12	0	0	0
Stock Clerks - Stockroom, Warehouse, or Yard	22	24	2	1	3
All Other Material Recording/Scheduling/Dist. All Other Clerical & Administrative Support	23 13	25 14	2 1	2 1	4 2
				_	
SERVICE OCCUPATIONS All Cleaning/Building Service, Exc.	18	19	1	3	4
Private House	18	19	1	3	4
AGRICULTURAL, FORESTRY, & RELATED OCCUPATIONS	2	2	0	0	0
PRODUCTION, MAINTENANCE, & MATERIAL HANDLING	691	768	77	45	122
First Line Managers/Supervisors - Mechanics/	60	77	8	8	16
Installers/Repairers All Other First Line Managers/Supervisors -	69	//	0	O	10
Maintenance/Production/Construction	21	22	1	1	2
All Inspectors, Testers, & Related Automotive Mechanics	6 8	6 8	0 0	0 0	0
Bus & Truck Mechs., & Diesel Eng. Specialists	9	9	0	Ö	Ö
Central Office & PBX Installers & Repairers	19	22	3	1	4
All Other Communication Equipment Mechanics/	•	e	^	^	^
Installers/Repairers Telephone & Cable TV Line Installers/Repairers	6 41	6 4 7	0 6	0 2	0 8
Powerhouse, Substation, & Relay Electricians	31	35	4	1	5
Electrical Powerline Installers & Repairers	27	31	4	2	6
Station Installers & Repairers, Telephone	25 ·s 6	29 6	4	1	5 0
All Other Electrical Mechs./Installers/Repairer All Other Mechanics, Installers, & Repairers	60	66	6	3	9
All Construction Trades Workers	18	18	0	0	0
Machinists	13	15	2	1	3

TRANSPORTATION, COMMUNICATION, AND PUBLIC UTILITIES

NAVAJO COUNTY (CONTD.)

	ESTIMATED MAY 1985 EMPLOYMENT	PROJECTED MAY 1989 EMPLOYMENT	JOB OPENINGS DUE TO GROWTH 1985-1989	JOB OPENINGS DUE TO SEPARATIONS 1985-1989	TOTAL JOB OPENINGS 1985-1989
••• the distribution	25	28	3	2	5
All Hand Workers	45	52	7	4	11
All Plant & System Operators	47	51	4	3	7
Truck Drivers, Heavy or Tractor Trailer	16	17	1	1 .	2
All Other Motor Vehicle Operators	10	1	ñ	0	0
All Rail Vehicle Opers. & Controllers	4	26	3	1	3
-All Transportation & Related Workers	24	26	2	1	4
All Material Moving Equipment Operators All Helpers & Laborers	34	37	3	12	32
	137	156	19	13	32
TOTAL OF ALL OCCUPATIONS	1,198	1,325	127	97	224

Confidential data for certain occupations have been added to "All" or "All Other" categories or collapsed into major occupational classes as follows:

PROFESSIONAL, PARAPROFESSIONAL, & TECHNICAL

All Other Engineers Mechanical Engineers

CLERICAL & ADMINISTRATIVE SUPPORT OCCUPATIONS

- All Communication Equipment Operators Central Office Operators
- All Other Material Recording/Scheduling/Dist. Production, Planning, & Expediting Clerks
- All Other Clerical & Administrative Support Billing, Cost & Rate Clerks

PRODUCTION, MAINTENANCE, & MATERIAL HANDLING

- All Other First Line Managers/Supervisors -Maintenance/Production/Construction First Line Mgrs./Supers. - Transport. Operatives
- All Other Mechanics, Installers, & Repairers
 Machinery Maintenance Mechanics, Water & Power
 Generation Plants
- All Construction Trades Workers Plumbers, Pipefitters, & Steamfitters
- All Hand Workers Welders & Cutters
- All Other Motor Vehicle Operators
 Truck Drivers, Light Incl. Delivery & Route
- All Transportation & Related Workers Aircraft Pilots & Flight Engineers Service Station Attendants
- All Material Moving Equipment Operators Industrial Truck & Tractor Operators
- All Helpers & Laborers Helpers - Electricians & Powerline Installers

TRANSPORTATION, COMMUNICATION, AND PUBLIC UTILITIES

PIMA COUNTY

	ESTIMATED MAY 1985 EMPLOYMENT	PROJECTED MAY 1989 EMPLOYMENT	JOB OPENINGS DUE TO GROWTH 1985-1989	JOB OPENINGS DUE TO SEPARATIONS 1985-1989	TOTAL JOB OPENINGS 1985-1989
MANAGERIAL & ADMINISTRATIVE OCCUPATIONS	486	509	23	26	49
Financial Managers	32	32	0	0	0
Personnel, Training, & Labor Relations Mgrs.	10	10	0	0	0
Purchasing Managers	5	5	0	0	0
Marketing, Advertising, & Public Rel. Mgrs.	39	40	1	3	4
Administrative Services Managers	14	14	0	0	0
Engineering, Mathematical and Natural Sciences	Mgrs 16	16	0	1	1
Transportation, Communications, & Utilities	166	175	9	5	14
Operations Managers	166 182	195	13	16	29
General Managers & Top Executives All Other Managers & Administrators	22	22	0	ĩ	ī
Att Other Managers & Nuministrations			•		
PROFESSIONAL, PARAPROFESSIONAL, & TECHNICAL	1,035	1,079	44	68	112
Accountants & Auditors	51	52	1	3	4
All Other Financial Specialists	13	13	0	1	1
Purchasing Agents, Exc. Wholesale, Retail, & Fa	irm 15	15	0	1	1
Personnel, Training, & Labor Rel. Specialists	18	18	0	0 1	0 1
All Other Management Support Workers	18	18	7	7	14
Electrical & Electronic Engineers	148 9	155 9	ó	ó	0
Mechanical Engineers	26	27	i	ì	2
All Other Engineers Electrical/Electronic Engineering Technicians	82 82	85	3	3	6
Mechanical Engineering Techs.	7	7	ō	Ö	. 0
Drafters	25	25	Ö	1	1
All Other Engineering & Related Technicians	51	52	1	2	3
All Physical Scientists	1	1	0	0	0
All Life Scientists	3	3	0	0	0
All Physical & Life Science Techs.	1	1	0	0	0
Systems Analysts, Electronic Data Processing	46	47	1	0	1
Computer Programmers	13	13	0	0	0
All Mathematical Scientists	2	2 1	0 0	0 0	0
All Social Scientists	1 8	8	0	0	0
All Teachers & Instructors Emergency Medical Technicians	100	113	13	22	35
All Other Health Professionals,	100	113	13		
Paraprofessionals & Technicians	1	1	0	0	0
Public Rel. Specialists & Publicity Writers	9	9	0	0	0
Reporters & Correspondents	35	37	2	6	8
Broadcast News Analysts	24	25	1	1	2
Announcers, Radio & Television	147	156	9	10	19
Photographers	21	22	1	2	3
Camera Operators, Television & Motion Picture	32 66	33 69	1 3	1 3	2 6
Broadcast Technicians	14	14	0	2	2
Film Editors Artists & Related Workers	8	8	Ô	ō	ō
Producers, Directors, Actors, & Entertainers	7	7	Ŏ	Ŏ	Ö
All Other Professional, Paraprofessional,	· ·	·			
& Technical Workers	33	33	0	1	1
SALES & RELATED OCCUPATIONS	626	686	60	81	141
First Line Supervisors & Managers - Sales	51	53	2 9	3 18	5 27
Sales Agents, Selected Business Services	140 314	149 357	43	45	88
Travel Agents Sales Agents, Advertising	66	70	43	8	12
Cashiers	30	31	ĭ	4	5
All Other Sales & Related Workers	25	26	ī	3	4
CLERICAL & ADMINISTRATIVE SUPPORT OCCUPATIONS	2,212	2,337	1 25	325	450
First Line SupersClerical & Admin. Support	125	132	7	12	19 1
Credit Managers	6 136	143	0 7	1 27	34
Adjustment Clerks Bill & Account Collectors	130	143 9	ó	0	0
OTTE & ACCOUNT COTTECTORS	7	7	V		ŭ

TRANSPORTATION, COMMUNICATION, AND PUBLIC UTILITIES

PIMA COUNTY (CONTD.)

Reservation & Transportation Ticket Agents		ESTIMATED MAY 1985 EMPLOYMENT	PROJECTED MAY 1989 EMPLOYMENT	JOB OPENINGS DUE TO GROWTH 1985-1989	JOB OPENINGS DUE TO SEPARATIONS 1985-1989	TOTAL JOB OPENINGS 1985-1989
Secretaries 10	Reservation & Transportation Ticket Agents					
Stemographers 26				-		
Presented Pres	Stenographers Stenographers : Information Clerks				2	
Typists, Word Processing Equipment Personnel Clerks, Exc. Payroll & Timekeeping Order Clerks - Materials, Merch., & Service Signature of Clerks - Merch., & Service Signature of Clerks - Service - Ser						
Personnel Clerks Exc. Payroll & Inmesepting 13	Typists, Word Processing Equipment			_		
Statistical Clerks Customer Service Representatives, Utilities 152 224 12 44 56 Customer Service Representatives, Utilities 152 157 7 22 29 Bookkeeping, Accounting, & Auditing Clerks 159 19 0 1 1 Payroll & Timekeeping Clerks 57 61 4 9 13 Billing, Cost & Rate Clerks 57 61 4 9 13 Billing, Fosting, 173 183 10 31 41 Billing, Fosting, 173 183 10 31 41 Billing, Fosting, 174 173 183 10 1 1 Billing, Fosting, 174 175 175 175 175 175 175 Billing, Fosting, 175 175 175 175 175 175 175 Billing, Fosting, 175 175 175 175 175 175 175 Billing, Fosting, 175 175 175 175 175 175 175 175 175 Billing, Fosting, 175 175 175 175 175 175 175 175 175 175 175 Billing, Fosting, 175	Personnel Clerks, Exc. Payroll & Timekeeping			•	2	
Customer Service Representatives, Utilities	Statistical Clerks		-			
Bookkeeping, Accounting, & Auditing Cierks 150	Customer Service Representatives, Utilities				•	
Payroll & Immakeshing Clerks 57	Bookkeeping, Accounting, & Auditing Clerks					1
General Office Clerks Billings, Posting, & Calculating Machine Opers. Billings, Posting, & Calculating Machine Opers. Computer Operators, Exc. Peripheral Equipment Data Entry Keyers, Exc. Composing All Other Office Machine Operators Billings, Composing All Other Office Machine Operators Computer Operator	Payroll & Imekeeping Cierks			•	-	
Siling	General Office Clerks				-	
Computer Operators, Exc. Teriphetal Latinumber 27	Billing, Posting, & Calculating Machine Opers.					
All Other Office Machine Operators Nitchboard Operators 26 28 26 4 177 21 Directory Assistance Operators All Other Communication Equipment Operators 153 162 9 40 49 49 All Other Communication Equipment Operators 153 162 9 5 40 49 All Other Communication Equipment Operators 153 162 9 5 14 Dispatchers - Exc. Police, Fire, & Ambulance 108 1117 9 5 14 Production, Planning, & Expediting Clerks 50 52 2 10 Reter Readers, Utilities 79 82 3 4 7 Meter Readers, Utilities 89 14 19 33 Meter Readers, Utilities 89 14 19 33 Meter Readers, March Readers 10 10 0 0 0 0 0 Meter Readers, March Readers 11 12 1 0 0 1 Meter Readers, March Readers 11 12 1 0 0 0 Meter Readers, March Readers 11 12 1 0 0 0 Meter Readers, March Readers 12 1 1 0 0 0 Meter Readers, March Readers 13 10 1 1 1 1 2 Meter Readers, March Readers 14 10 0 0 0 Meter Readers, March Readers 15 1 1 1 0 0 0 Meter Readers, March Readers 16 1 1 0 0 0 0 Meter Readers, March Readers 17 1 0 0 0 0 Meter Readers, March Readers 18 19 1 1 1 2 Meter Readers 19 10 1 1 1 1 2 Meter Readers 10 0 0 0 0 Meter Readers, March Readers 11 1 0 0 0 0 Meter Readers Readers 12 1 1 0 0 0 Meter Readers Readers 13 1 1 1 1 2 Meter Readers 14 1	Computer Operators, Exc. Peripheral Equipment					
Systichboard Operators	All Other Office Machine Operators					
Cirectory Assistance Operators	Switchboard Operators			~		
All Other Communication 108 117 9 5 14	Directory Assistance Operators		_			
Production, Planning, & Expediting Clerks	Dispatchers - Fxc. Police, Fire, & Ambulance					
Meter Readers, Utilities 79	Production, Planning, & Expediting Clerks					
Stock Clerks - Stuckroom, Warehouse, Or latu	Meter Readers, Utilities	, -			·	
All Other Material Recording/Scheduling/Dist. 34 All Other Clerical & Administrative Support 58 59 1 4 5 SERVICE OCCUPATIONS First Line Supers. & Mgrs./Supers Service 5 5 5 0 0 0 0 0 Guards & Watch Guards 10 10 0 0 0 0 Guards & Watch Guards 10 10 0 0 0 1 All Other Protective Service Workers 11 12 1 0 1 All Health Service Workers 67 75 9 8 17 Cleaning and Building Service Occupations 40 40 0 0 3 3 3 All Other Service Workers 52 56 4 8 12 PRODUCTION, MAINTENANCE, & MATERIAL HANDLING 3,639 3,941 302 280 582 First Line Managers/Supervisors - Mechanics/ Installers/Repairers 132 137 5 14 19 First Line Managers/Supervisors - Construction Traces & Extraction Workers 132 137 5 14 19 First Line Mgrs./Supers Transport. Operatives 36 39 3 7 10 Frection Inspectors, Testers, & Graders 11 12 1 2 3 All Other First Line Managers/Supervisors - Maintenance/Production/Construction 70 74 4 11 15 Precision Inspectors, Testers, & Graders 18 19 1 1 2 2 3 All Other Inspectors, Testers, & Graders 18 19 1 1 1 2 2 3 All Other Inspectors, Testers, & Graders 18 19 1 1 1 2 2 3 All Other Inspectors, Testers, & Graders 18 19 1 1 1 2 2 3 All Other Inspectors, Testers, & Graders 18 19 1 1 1 2 2 3 All Other Inspectors, Testers, & Graders 18 19 1 1 1 2 2 3 All Other Inspectors, Testers, & Graders 18 19 1 1 1 2 2 3 All Other Inspectors, Testers, & Graders 18 19 1 1 1 2 2 3 All Other Maintenance Mechanics, Water & Power Generation Plants All Other Maintenance Mechanics 1 1 1 0 0 0 0 0 Maintenance Repairers, General Utility 61 64 3 3 3 6 6 Maintenance Repairers, General Utility 61 64 3 3 3 6 6 Mobile Heavy Equip. Mechanics, Exc. Engines 9 9 0 0 0 0 0 Moline Heavy Equip. Mechanics, Exc. Engines 9 9 0 0 0 0 0 Moline Heavy Equip. Mechanics, Exc. Engines 9 9 0 0 0 0 0 Central Office 8 30 31 1 1 1 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Stock Clerks - Stockroom, Warehouse, or laru	_			0	
SERVICE OCCUPATIONS	All Other Material Recording/Scheduling/Dist.	34				
SERVICE OCCUPATIONS	All Other Clerical & Administrative Support	58	59	1	4	5
First Line Supers. & Mgrs./Supers Service 5	CERVICE OCCUPATIONS	185	199	14		
Guards & Watch Guards	First Line Supers. & Mgrs./Supers Service	5				
All Other Protective Service Workers 67 76 9 8 17 All Health Service Workers 67 76 9 8 17 Cleaning and Building Service Occupations 40 40 0 3 3 3 All Other Service Workers 52 56 4 8 12 PRODUCTION, MAINTENANCE, & MATERIAL HANDLING 3,639 3,941 302 280 582 First Line Managers/Supervisors - Mechanics/ Installers/Repairers First Line Managers/Supervisors - Construction Trades & Extraction Workers 45 47 2 3 5 First Line Mgrs./Supers Transport. Operatives 36 39 3 7 10 First Line Mgrs./Supers Laborers & Helpers 11 12 1 2 3 All Other First Line Managers/Supervisors - Maintenance/Production/Construction 70 74 4 11 15 All Other First Line Managers/Supervisors - Waintenance/Production/Construction 70 74 4 11 15 All Other Inspectors, Testers, & Related 12 12 0 0 0 0 All Other Inspectors, Testers, & Related 12 12 0 0 0 0 All Other Machinery Maintenance Mechanics, Water & Power Generation Plants All Other Machinery Maintenance Mechanics 1 1 1 0 0 0 0 Automotive Mechanics Seneral Utility 61 64 3 3 6 6 Maintenance Repairers, General Utility 61 64 3 3 6 6 Maintenance Repairers, General Utility 61 64 3 3 6 6 Maintenance Repairers, General Utility 61 64 3 3 6 6 Maintenance Repairers, Exc. Engines 9 9 0 0 0 0 0 Mobile Heavy Equip. Mechanics, Exc. Engines 9 9 0 0 0 0 0 0 Mobile Heavy Equip, Mechanics, Exc. Engines 9 9 0 0 0 0 0 0 Mobile Heavy Equip, Mechanics 92 103 11 4 15 Central Office & PBX Installers & Repairers 179 190 11 14 25 Frame Wirers, Central Office 30 3 3 1 1 1 2 Frame Wirers, Central Office 60 63 3 3 6 All Other Communication Equipment Mechanics/ Installers/Repairers 10 0 0 10 Installers/Repairers 10 0 0 10 Installers/Repairers 10 0 0 10 Installers/Repairers 10 0 0 0 0 11 Installers/Repairers 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Guards & Watch Guards				•	
All Health Service Workers 40 40 0 3 3 3 3 3 3 3 3						
## PRODUCTION, MAINTENANCE, & MATERIAL HANDLING 3,639 3,941 302 280 582	Cleaning and Ruilding Service Occupations					
First Line Managers/Supervisors - Mechanics/	All Other Service Workers	52	56	4	8	12
Installers/Repairers	PRODUCTION, MAINTENANCE, & MATERIAL HANDLING	3,639	3,941			
Trades & Extraction Workers First Line Mgrs./Supers Transport. Operatives 36 39 3 7 10 First Line Mgrs./Supers Laborers & Helpers 11 12 1 2 3 All Other First Line Managers/Supervisors - Maintenance/Production/Construction 70 74 4 11 15 Precision Inspectors, Testers, & Graders 18 19 1 2 2 0 0 0 0 All Other Inspectors, Testers, & Related 12 12 0 0 0 0 All Other Inspectors, Testers, & Related 12 12 0 0 0 0 0 All Other Maintenance Mechanics, Water & Power Generation Plants 1 1 0 0 0 0 0 All Other Machinery Maintenance Mechanics 1 1 1 0 0 0 0 0 All Other Machinery Maintenance Mechanics 1 1 1 0 0 0 0 0 Adintenance Repairers, General Utility 61 64 3 3 6 6 Automotive Mechanics 56 58 2 1 3 3 6 6 Bus & Truck Mechs., & Diesel Eng. Specialists 75 84 9 6 15 Mobile Heavy Equip. Mechanics, Exc. Engines 9 9 0 0 0 0 0 Aircraft Mechanics 92 103 11 4 15 Central Office & PBX Installers & Repairers 179 190 11 14 25 Frame Wirers, Central Office 30 31 3 6 Radio Mechanics 1 1 0 0 0 0 Frame Wirers, Central Office 30 31 3 6 Radio Mechanics 1 1 0 0 0 0 Installers/Repairers 1 1 0 0 0 0 Installers/Repairers 1 1 0 0 0 0 Installers/Repairers 1 1 0 0 0 0 0 0 Installers/Repairers 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Installers/Repairers	132	137	5	14	19
First Line Mgrs./Supers Transport. Operatives 36 39 3 7 10	First Line Managers/Supervisors - Construction	45	47	2	3	5
First Line Mgrs./Supers Laborers & Helpers All Other First Line Managers/Supervisors - Maintenance/Production/Construction Precision Inspectors, Testers, & Graders All Other Inspectors, Testers, & Related I2 I	First Line Mars./Supers Transport. Operatives		39	3		
Maintenance/Production/Construction 70 74 75 74 74 74 74 75 74 74 74 74 75 74 74 74 74 75 74	First Line Mars./Supers Laborers & Helpers	11	12	1	2	3
Precision Inspectors, Testers, & Graders All Other Inspectors, Testers, & Related Machinery Maintenance Mechanics, Water & Power Generation Plants All Other Machinery Maintenance Mechanics I 1 0 0 0 0 All Other Machinery Maintenance Mechanics I 1 0 0 0 0 All Other Machinery Maintenance Mechanics I 1 0 0 0 0 All Other Machinery Maintenance Mechanics I 1 0 0 0 0 Automotive Mechanics Bus & Truck Mechs., & Diesel Eng. Specialists For 84 9 6 15 Mobile Heavy Equip. Mechanics, Exc. Engines Mobile Heavy Equip. Mechanics, Exc. Engines Prame Wirers, Central Office All Other Communication Equipment Mechanics/ Installers/Repairers I 1 0 0 0 Installers/Repairers Telephone & Cable TV Line Installers/Repairers I 1 0 0 0 Installers/Repairers I 1 1 0 0 0 Installers/Repairers	All Other First Line Managers/Supervisors -	70	74	4	11	
## All Other Inspectors, Testers, & Related ## Machinery Maintenance Mechanics, Water & Power Generation Plants ## 14	Precision Inspectors, Testers, & Graders					
Machinery Maintenance Mechanics, Water & Power Generation Plants 14 14 0 0 0 All Other Machinery Maintenance Mechanics 1 1 0 0 0 All Other Machinery Maintenance Mechanics 1 1 0 0 0 Maintenance Repairers, General Utility 61 64 3 3 6 Automotive Mechanics 56 58 2 1 3 Automotive Mechanics 56 58 2 1 3 Bus & Truck Mechs., & Diesel Eng. Specialists 75 84 9 6 15 Mobile Heavy Equip. Mechanics, Exc. Engines 9 9 0 0 0 Aircraft Mechanics 92 103 11 4 15 Central Office & PBX Installers & Repairers 179 190 11 14 25 Frame Wirers, Central Office 30 31 1 1 2 Radio Mechanics 60 63 3 3 6 All Other Communication Equipment Mechanics/ 1 1 0 0 0 <td>All Other Inspectors, Testers, & Related</td> <td>12</td> <td>12</td> <td>0</td> <td>0</td> <td>U</td>	All Other Inspectors, Testers, & Related	12	12	0	0	U
All Other Machinery Maintenance Mechanics 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Machinery Maintenance Mechanics, Water & Power	1.4	14	0	0	0
Maintenance Repairers, General Utility 61 64 3 6 1 3 6 Automotive Mechanics 56 58 2 1 3 3 6 1 3 3 6 1 3 3 6 1 5 8 1 1 3 3 6 1 1 3 3 6 1 1 3 3 6 1 1 3 3 6 1 1 3 3 6 1 1 1 3 3 6 1 1 1 1	Generation Plants				0	
Automotive Mechanics Bus & Truck Mechs., & Diesel Eng. Specialists Mobile Heavy Equip. Mechanics, Exc. Engines Aircraft Mechanics Central Office & PBX Installers & Repairers Frame Wirers, Central Office Radio Mechanics All Other Communication Equipment Mechanics/ Installers/Repairers Telephone & Cable TV Line Installers/Repairers 56 58 2 60 58 44 9 6 15 9 9 0 0 0 11 14 25 11 12 11 27 11 11 22 11 11 22 11 11 22 11 11 22 11 11	Maintenance Repairers, General Utility					
## Bus & Truck Mechs., & Diesel Eng. Specialists Mobile Heavy Equip. Mechanics, Exc. Engines 9 9 0 0 0 Aircraft Mechanics 92 103 11 4 15 Central Office & PBX Installers & Repairers 179 190 11 14 25 Frame Wirers, Central Office 30 31 1 1 2 Radio Mechanics 60 63 3 3 6 All Other Communication Equipment Mechanics 1 1 0 0 0 Installers/Repairers 1 1 0 0 0 Telephone & Cable TV Line Installers/Repairers 205 216 11 11 22 Telephone & Cable TV Line Installers/Repairers 205 216 216 216 216 217 227 Telephone & Cable TV Line Installers/Repairers 205 216 217 227 Telephone & Cable TV Line Installers/Repairers 205 216 217 227 Telephone & Cable TV Line Installers/Repairers 205 216 217 227 Telephone & Cable TV Line Installers/Repairers 205 216 217 227 Telephone & Cable TV Line Installers/Repairers 205 216 217 227 Telephone & Cable TV Line Installers/Repairers 205 216 217 Telephone & Cable TV Line Installers/Repairers 205 216 217 Telephone & Cable TV Line Installers/Repairers 205 216 217 Telephone & Cable TV Line Installers/Repairers 205 216 217 Telephone & Cable TV Line Installers/Repairers 205 207 Telephone & Cabl	Automotive Mechanics				_	
Mobile Heavy Equip. Mechanics, Exc. Engines Aircraft Mechanics Central Office & PBX Installers & Repairers Frame Wirers, Central Office Radio Mechanics All Other Communication Equipment Mechanics/ Installers/Repairers Telephone & Cable TV Line Installers/Repairers 22 103 11 4 15 4 15 4 15 60 63 11 1 1 2 7 0 0 0 8 11 1 1 1 2 8 10 1 1 1 1 2 9 2 103 11 1 1 1 2 1 1 2 1 1 2 1 1 1 2 2 1 1 1 1	Bus & Truck Mechs., & Diesel Eng. Specialists					
Central Office & PBX Installers & Repairers 179 190 11 14 25 Frame Wirers, Central Office 30 31 1 1 2 Radio Mechanics 60 63 3 3 6 All Other Communication Equipment Mechanics/ 1 1 0 0 0 Installers/Repairers 1 1 0 0 0 Telephone & Cable TV Line Installers/Repairers 205 216 11 11 22 10 1	Modifie Heavy Equip. Mechanics, Exc. Engines				•	
Frame Wirers, Central Office 30 31 1 2 2 3 3 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Central Office & PBX Installers & Repairers					
Radio Mechanics All Other Communication Equipment Mechanics/ Installers/Repairers I 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Frame Wirers, Central Office					
Installers/Repairers 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Radio Mechanics	60	03	3	,	Ť
Telephone & Cable TV Line Installers/Repairers 205 216 11 12 22 10 10		1	1	-	-	
Electronics Repairers, Commercial & Ind. Equip. 105 110 5 5	Telephone & Cable TV Line Installers/Repairers					
	Electronics Repairers, Commercial & Ind. Equip.	105	110	5	J	10

TRANSPORTATION, COMMUNICATION, AND PUBLIC UTILITIES

PIMA COUNTY (CONTD.)

	ESTIMATED MAY 1985 EMPLOYMENT	PROJECTED MAY 1989 EMPLOYMENT	JOB OPENINGS DUE TO GROWTH 1985-1989	JOB OPENINGS DUE TO SEPARATIONS 1985-1989	TOTAL JOB OPENINGS 1985-1989
Powerhouse, Substation, & Relay Electricians	48	50	2	2	4
Electrical Powerline Installers & Repairers	271	286	15	20	35
Station Installers & Repairers, Telephone	70	74	4	3	7
All Other Electrical Mechs./Installers/Repairer		26	i	ī	2
Mechanical Control & Valve Installers &					
Repairers	24	25	1	1	2
Gas Appliance Repairers	58	61	3	6	9
All Other Mechanics, Installers, & Repairers	53	55	2	3	5
Carpenters	9	9	0	Ō	Ō
All Other Construction Trades Workers	51	53	2	2	4
All Other Construction & Extraction Workers,					
Exc. Helpers	2	2	0	0	0
All Precision Metal Workers	ī	1	0	0	0
All Precision Workers	9	9	Ö	Ō	Ö
Boiler Operators & Tenders, Low Pressure	8	8	0	Ö	Ö
All Machine Setters & Set-Up Operators	i	i	0	Ō	Ö
All Other Machine Operators & Tenders	10	10	Ō	Ö	Ö
Welders & Cutters	25	26	ĩ	2	3
Gas Plant Operators	7	7	Ō	Ō	Ō
Power Generating Plant Opers., Exc. Aux. Equip.	7	7	0	Ō	Ō
Power Distributors & Dispatchers	11	11	Ö	Ö	Ö
All Other Plant & System Operators	23	23	Ō	Õ	Ō
Truck Drivers, Heavy or Tractor Trailer	422	476	54	30	84
Truck Drivers, Light - Incl. Delivery & Route	290	327	37	19	56
Bus Drivers	304	344	40	38	78
Taxi Drivers & Chauffeurs	123	138	15	17	32
All Transportation & Related Workers	38	42	4	1	5
All Transportation & Moving Equip. Operators	10	iī	i	Õ	i
All Material Moving Equipment Operators	11	12	ī	Õ	ĩ
Mechanic & Repairer Helpers	161	170	9	16	25
Helpers - All Other Construction Trades	25	26	ī	2	3
Vehicle Washers & Equipment Cleaners	30	33	3	ī	4
All Other Helpers & Laborers	300	334	34	30	64
TOTAL OF ALL OCCUPATIONS	8,183	8,751	568	799	1,367

Confidential data for certain occupations have been added to "All" or "All Other" categories or collapsed into major occupational claasses as follow:

PROFESSIONAL, PARAPROFESSIONAL, & TECHNICAL

- All Other Engineering & Related Technicians Surveying & Mapping Techs.
- All Other Health Professionals, Paraprofessionals & Technicians Health Practitioners, Technicians, & Related
- All Other Professional, Paraprofessional, & Technical Workers Writers & Editors

CLERICAL & ADMINISTRATIVE SUPPORT OCCUPATIONS

- All Other Office Machine Operators Peripheral EDP Equipment Operators
- All Other Communication Equipment Operators Central Office Operators
- All Other Material Recording/Scheduling/Dist.
 Dispatchers Police, Fire, & Ambulance
 Transportation Agents
- All Other Clerical & Administrative Support Travel Clerks Correspondence Clerks

TRANSPORTATION, COMMUNICATION, AND PUBLIC UTILITIES

PIMA COUNTY (CONTD.)

SERVICE OCCUPATIONS

All Other Protective Service Workers Railroad & Transit Police & Special Agents

All Health Service Workers
Ambulance Drivers & Attendants - Exc.
Emergency Medical Technicians

All Other Service Workers Guides Baggage Porters & Bellhops Flight Attendants

PRODUCTION, MAINTENANCE, & MATERIAL HANDLING

- All Other Mechanics, Installers, & Repairers Electric Meter Installers & Repairers Tire Repairers & Changers
- All Other Construction Trades Workers Electricians
- All Other Machine Operators & Tenders Painters, Transportation Equipment
- All Transportation & Related Workers Aircraft Pilots & Flight Engineers Service Station Attendants
- All Material Moving Equipment Operators Industrial Truck & Tractor Operators
- All Other Helpers & Laborers Hand Packers & Packagers

TRANSPORTATION, COMMUNICATION, AND PUBLIC UTILITIES

PINAL COUNTY

	ESTIMATED MAY 1985 EMPLOYMENT	PROJECTED MAY 1989 EMPLOYMENT	JOB OPENINGS DUE TO GROWTH 1985-1989	JOB OPENINGS DUE TO SEPARATIONS 1985-1989	TOTAL JOB OPENINGS 1985-1989
MANAGERIAL & ADMINISTRATIVE OCCUPATIONS Transportation, Communications, & Utilities	52	54	2	0	2
Operations Managers	23	25	2	0	2
General Managers & Top Executives All Other Managers & Administrators	12 17	12 17	0 0	0 0	0 0
PROFESSIONAL, PARAPROFESSIONAL, & TECHNICAL	71	75	4	5	9
All Financial Specialists	1	1	Õ	õ	Ó
All Management Support Workers	17	18	1	1	2
All Engineers	3	3	0	0	0
All Engineering & Related Technicians All Teachers & Instructors All Health Professionals,	9 2	9 2	0	0 0	0 0
Paraprofessionals, & Technicians	17	18	1	3	4
Announcers, Radio & Television	16	18	2	1	3
All Other Professional, Paraprofessional, & Technical Workers	6	6	0	0	0
a recuircal morkers		_		_	_
SALES & RELATED OCCUPATIONS	45 7	4 7 7	2 0	3 0	5 0
Sales Agents, Advertising All Sales Representatives & Salespersons, Servi		20	1	1	2
All Other Sales & Related Workers	19	20	ī	2	3
CLERICAL & ADMINISTRATIVE SUPPORT OCCUPATIONS	153	164	11	13	24
First Line SupersClerical & Admin. Support	8	8	0	0	0
Secretaries Customer Service Representatives, Utilities	8 33	8 37	0 4	0 5	0 9
Bookkeeping, Accounting, & Auditing Clerks	13	13	Õ	ő	ó
General Office Clerks	26	29	3	3	6
All Office Machine Operators	3	3	0	0	0
Central Office Operators All Other Communication Equipment Operators	7 10	8 11	1	1	2 2
Production, Planning, & Expediting Clerks	11	12	i	2	3
Stock Clerks - Stockroom, Warehouse, or Yard	6	6	0	0	0
All Other Material Recording/Scheduling/Dist.	20	21	1	1	2
All Other Clerical & Administrative Support	8	8	0	0	0
SERVICE OCCUPATIONS	67	72	5	8	13
All Service Supervisors & Managers Guards & Watch Guards	3 1	3 1	0 0	0 0	0
All Other Protective Service Workers	10	11	1	Ö	1
All Other Food Service Workers	27	29	2	4	6
Cleaning And Building Service Occupations	26	28	2	4	6
PRODUCTION, MAINTENANCE, & MATERIAL HANDLING	4 83	526	43	24	67
First Line Managers/Supervisors - Mechanics/ Installers/Repairers	16	17	1	1	2
First Line Mgrs./Supers Transport. Operative: All Other First Line Managers/Supervisors -		7	ō	ō	0
Maintenance/Production/Construction	3	3	0	0	0
Transportation Inspectors	10	11	1	1	2
Machinery Maintenance Mechanics, Water & Power Generation Plants	24	27	2	1	4
Maintenance Repairers, General Utility	11	27 12	3 1	1	4 1
Aircraft Engine Specialists	28	31	3	i	4
All Communication Equipment Mechanics/	•-		•	•	-
Installers/Repairers Electrical Powerline Installers & Repairers	15 25	15 29	0	0 2	0 6
Station Installers & Repairers, Telephone	25 6	29 7	1	0	1
All Other Electrical Mechs./Installers/Repairers		18	ī	ŏ	ī
Gas Appliance Repairers	11	12	1	1	2
All Other Mechanics, Installers, & Repairers	94	102	8	4	12

TRANSPORTATION, COMMUNICATION, AND PUBLIC UTILITIES

PINAL COUNTY (CONTD.)

	ESTIMATED MAY 1985 EMPLOYMENT	PROJECTED MAY 1989 EMPLOYMENT	JOB OPENINGS DUE TO GROWTH 1985-1989	JOB OPENINGS DUE TO SEPARATIONS 1985-1989	TOTAL JOB OPENINGS 1985-1989
All Construction Trades Workers	16	17	1	0	7
All Precision Metal Workers	2	2	Ô	0	1
All Precision Workers	ī	ī	0	0	0
Painters, Transportation Equipment	22	24	2	0	U.
All Other Machine Operators & Tenders	3	2	0	2	4
Welders & Cutters	11	12	1	0	Ų
All Other Hand Workers	21	23	2	0	Ţ
Power Generating Plant Opers., Exc. Aux. Equip.	14	16	2 .	2	4
Auxiliary Equipment Operators, Power	0	10	2	1	3
All Other Plant & System Operators	4	10	i .	1	2
All Motor Vehicle Operators	22	24	Ü	0	0
All Rail Vehicle Opers. & Controllers		24	2	1	3
All Transportation & Related Workers	23	24	1	1	2
All Material Moving Equipment Organians	12	13	1	1	2
All Material Moving Equipment Operators	. 6	6	0	0	0
Helpers - Electricians & Powerline Installers	17	20	3	1	4
All Other Helpers & Laborers	33	36	3	3	6
TOTAL OF ALL OCCUPATIONS	871	938	67	53	120

Confidential data for certain occupations have been added to "All" or All Other" categories or collapsed into major occupational classes as follows:

PROFESSIONAL, PARAPROFESSIONAL, & TECHNICAL

All Other Health Professionals, Paraprofessionals, & Technicians Emergency Medical Technicians

SALES & RELATED OCCUPATIONS

All Other Sales Representatives & Salespersons, Service Sales Agents, Selected Business Services Travel Agents All Other Sales & Related Workers Cashiers

CLERICAL & ADMINISTRATIVE SUPPORT OCCUPATIONS

All Other Communication Equipment Operators Switchboard Operators

All Other Material Recording/Scheduling/Dist. Meter Readers, Utilities Traffic, Shipping, & Receiving Clerks

SERVICE OCCUPATIONS

All Food Service Workers Food & Beverage Service Occupations

PRODUCTION, MAINTENANCE, & MATERIAL HANDLING

All Other Electrical Mechs./Installers/Repairers Electronics Repairers, Commercial & Ind. Equip.

All Other Mechanics, Installers, & Repairers Bus & Truck Mechs., & Diesel Eng. Specialists Aircraft Mechanics

All Other Motor Vehicle Operators Truck Drivers, Heavy or Tractor Trailer

All Other Material Moving Equipment Operators Industrial Truck & Tractor Operators

All Other Helpers & Laborers Hand Packers & Packagers

TRANSPORTATION, COMMUNICATION, AND PUBLIC UTILITIES

SANTA CRUZ COUNTY

	ESTIMATED MAY 1985 EMPLOYMENT	PROJECTED MAY 1989 EMPLOYMENT	JOB OPENINGS DUE TO GROWTH 1985-1989	JOB OPENINGS DUE TO SEPARATIONS 1985-1989	TOTAL JOB OPENINGS 1985-1989
MANAGERIAL & ADMINISTRATIVE OCCUPATIONS	40	41	1	2	3
Transportation, Communications, & Utilities Operations Managers General Managers & Top Executives All Other Managers & Administrators	7 25 8	7 26 8	. 0 1 0	0 2 0	0 3 0
PROFESSIONAL, PARAPROFESSIONAL, & TECHNICAL All Financial Specialists All Management Support Workers All Engineers All Engineering & Related Technicians All Other Professional, Paraprofessional, & Technical Workers	17 2 2 1 2	18 2 2 1 2	1 0 0 0 0	0 0 0 0	1 0 0 0 0
ON TO A DELATED COCKEDATIONS	25	26	1	1	2
SALES & RELATED OCCUPATIONS ALL Sales Representatives & Salespersons, Serv All Other Sales & Related Workers		15 11	0	1 0	2 0
CLERICAL & ADMINISTRATIVE SUPPORT OCCUPATIONS	22 4 11	238 11	14	24 1	38 1
First Line SupersClerical & Admin. Support Secretaries	12	12	Ō	1	1
Order Clerks - Materials, Merch., & Service	38	42	4	8	12
Bookkeeping, Accounting, & Auditing Clerks	18	19	1	2	3
Billing, Cost & Rate Clerks	11	11	0	1	1
General Office Clerks	31	33	2	5	7
All Office Machine Operators	48	53	5	3	8
All Communication Equipment Operators	3	3	0	0	0
Dispatchers - Exc. Police, Fire, & Ambulance	11	12	1	0	1
All Other Material Recording/Scheduling/Dist. All Other Clerical & Administrative Support	20 21	20 22	0 1	0 3	0 4
SERVICE OCCUPATIONS	5	5	0	0	0
PRODUCTION, MAINTENANCE, & MATERIAL HANDLING First Line Managers/Supervisors - Mechanics/	228	244	16	13	29
Installers/Repairers All Other First Line Managers/Supervisors -	9	10	1	0	
Maintenance/Production/Construction	5	5	0	0	0
All Inspectors, Testers, & Related	1	1	0	0	0
Bus & Truck Mechs., & Diesel Eng. Specialists All Communication Equipment Mechanics/	9	10	1	0	0
Installers/Repairers	1	1	0	0	Ö
All Electrical Mechs./Installers/Repairers All Construction & Extraction Workers,	6	6	0	0	0
Exc. Helpers	1	1	1	Ö	ĭ
All Other Mechanics, Installers, & Repairers	19	20 1	Ô	ő	ō
All Hand Workers	1 4	4	0	ő	ŏ
All Plant & System Operators		49	4	3	7
Truck Drivers, Heavy or Tractor Trailer	45 22	24	2	2	4
Bus Drivers, School	22 9	9	0	ī	ĩ
All Other Motor Vehicle Operators	44	49	5	5	10
All Transportation & Related Workers	10	10	Õ	ō	0
All Material Moving Equipment Operators	42	44	2	2	4
All Helpers & Laborers				40	73
TOTAL OF ALL OCCUPATIONS	539	572	33	40	, ,

TRANSPORTATION, COMMUNICATION, AND PUBLIC UTILITIES

SANTA CRUZ COUNTY (CONTD.)

Confidential data for certai occupations have been added to "All" or "All Other" categories or collapsed into major occupational classes as follows:

PROFESSIONAL, PARAPROFESSIONAL, & TECHNICAL

All Other Professional, Paraprofessional, & Technical Workers Announcers, Radio & Television

SALES & RELATED OCCUPATIONS

All Other Sales Representatives & Salespersons, Service Travel Agents

CLERICAL & ADMINISTRATIVE SUPPORT OCCUPATIONS

All Office Machine Operators
Data Entry Keyers, Exc. Composing

All Other Material Recording/Scheduling/Dist. Traffic, Shipping, & Receiving Clerks

All Other Clerical & Administrative Support Typists

PRODUCTION, MAINTENANCE, & MATERIAL HANDLING

All Other Mechanics, Installers, & Repairers Automotive Mechanics

All Material Moving Equipment Operators Industrial Truck & Tractor Operators

All Helpers & Laborers Hand Packers & Packagers

TRANSPORTATION, COMMUNICATION, AND PUBLIC UTILITIES

YAVAPAI COUNTY

	ESTIMATED MAY 1985 EMPLOYMENT	PROJECTED MAY 1989 EMPLOYMENT	JOB OPENINGS DUE TO GROWTH 1985-1989	JOB OPENINGS DUE TO SEPARATIONS 1985-1989	TOTAL JOB OPENINGS 1985-1989
MANAGERIAL & ADMINISTRATIVE OCCUPATIONS	57	60	3	1	4
Transportation, Communications, & Utilities Operations Managers General Managers & Top Executives All Other Managers & Administrators	26 24 7	29 2 4 7	3 0 0	0 1 0	3 1 0
PROFESSIONAL, PARAPROFESSIONAL, & TECHNICAL All Management Support Workers Electrical & Electronic Engineers Electrical/Electronic Engineering Technicians Estimators & Drafters, Utilities Surveying & Mapping Techs. All Other Engineering & Related Technicians All Physical Scientists	151 10 14 13 8 7 5	168 11 15 15 9 8 5	17 1 2 1 1 0	14 1 0 0 0 0 0	31 2 1 2 1 1 0
All Health Professionals, Paraprofessionals & Technicians	51	56	5	11 2	16 8
Announcers, Radio & Television All Other Professional, Paraprofessional,	3 4 8	40 8	6 0	0	0
& Technical Workers		_	6	6	12
SALES & RELATED OCCUPATIONS First Line Supervisors & Managers - Sales	63 4	69 4	0	0	0
Sales Agents, Selected Business Services	18	20	2 2	2 3	4 5
Travel Agents	26 12	28 14	2	1	3
Sales Agents, Advertising All Other Sales & Related Workers	3	3	0	0	0
CLERICAL & ADMINISTRATIVE SUPPORT OCCUPATIONS First Line SupersClerical & Admin. Support Secretaries Bookkeeping, Accounting, & Auditing Clerks Billing, Cost & Rate Clerks General Office Clerks All Office Machine Operators Central Office Operators Dispatchers - Exc. Police, Fire, & Ambulance Meter Readers, Utilities All Other Material Recording/Scheduling/Dist. All Other Clerical & Administrative Support	177 12 18 21 9 16 7 21 8 10 15	186 12 19 22 9 16 7 24 8 11 15	9 0 1 1 0 0 0 3 0 1 0 3	14 0 2 1 0 0 1 5 0 0 0	23 0 3 2 0 0 1 8 0 1
SERVICE OCCUPATIONS	1	1	0	0	0
PRODUCTION, MAINTENANCE, & MATERIAL HANDLING	410	449	39	22	61
First Line Managers/Supervisors - Mechanics/ Installers/Repairers	30	33	3	3	6
All Other First Line Managers/Supervisors - Maintenance/Production/Construction	6	6	0	0	0
All Other Inspectors, Testers, & Related	1 9	1 9	0	0 0	0
Automotive Mechanics Central Office & PBX Installers & Repairers	8	9	ì	0	1
Radio Mechanics	10	11	1	0	1
All Other Communication Equipment Mechanics/ Installers/Repairers Electrical Powerline Installers & Repairers Station Installers & Repairers, Telephone All Other Electrical Mechs./Installers/Repaire Gas Appliance Repairers All Other Mechanics, Installers, & Repairers All Construction Trades Workers All Plant & System Operators Truck Drivers, Heavy or Tractor Trailer	3 22 8 8 17 10 72 5 2 45	3 25 9 19 11 80 5 2 49	0 3 1 2 1 8 0 0	0 1 0 0 1 3 0	0 4 1 2 2 2 11 0 0
All Other Motor Vehicle Operators	111	123	12	8	20

TRANSPORTATION, COMMUNICATION, AND PUBLIC UTILITIES

YAVAPAI COUNTY (CONTD.)

	ESTIMATED MAY 1985 EMPLOYMENT	PROJECTED MAY 1989 EMPLOYMENT	JOB OPENINGS DUE TO GROWTH 1985-1989	JOB OPENINGS DUE TO SEPARATIONS 1985-1989	TOTAL JOB OPENINGS 1985-1989
All Transportation & Related Workers	1	1	0	0	0
All Transportation Moving Equip. Operators	3	3	0	0	0
All Material Moving Equipment Operators	5	5	0	0	0
All Helpers & Laborers	42	45	3	3	6
TOTAL OF ALL OCCUPATIONS	859	933	74	57	131

Confidential data for certain occupations have been added to "All" or "All Other" categories or collapsed into major occupational classes as follows:

PROFESSIONAL, PARAPROFESSIONAL, & TECHNICAL

All Other Health Professionals, Paraprofessionals & Technicians Emergency Medical Technicians

CLERICAL & ADMINISTRATIVE SUPPORT OCCUPATIONS

All Other Clerical & Administrative Support Typists Customer Service Representatives, Utilities

PRODUCTION, MAINTENANCE, & MATERIAL HANDLING

All First Line Managers/Supervisors -Maintenance/Production/Construction First Line Mgrs./Supers. - Transport. Operatives

All Other Electrical Mechs./Installers/Repairers Telephone & Cable TV Line Installers/Repairers

All Other Mechanics, Installers, & Repairers Maintenance Repairers, General Utility Mechanical Control & Valve Installers & Repairers

All Other Motor Vehicle Operators
Truck Drivers, Light - Incl. Delivery & Route

All Helpers & Laborers Hand Packers & Packagers

TRANSPORTATION, COMMUNICATION, AND PUBLIC UTILITIES

YUMA COUNTY

	ESTIMATED MAY 1985 EMPLOYMENT	PROJECTED MAY 1989 EMPLOYMENT	JOB OPENINGS DUE TO GROWTH 1985-1989	JOB OPENINGS DUE TO SEPARATIONS 1985-1989	TOTAL JOB OPENINGS 1985-1989
MANAGERIAL & ADMINISTRATIVE OCCUPATIONS Transportation, Communications, & Utilities	34	35	1	0	1
Operations Managers	16	17	1	0	1
General Managers & Top Executives	9	9	ō	Ö	ō
All Other Managers & Administrators	9	9	0	0	0
PROFESSIONAL, PARAPROFESSIONAL, & TECHNICAL All Financial Specialists	76 4	80 4	4 0	3 0	7 0
All Management Support Workers	5	5	Ö	Ö	ŏ
All Engineers	11	11	0	0	0
All Engineering & Related Technicians	8	8	0	0	0
All Teachers & Instructors Broadcast News Analysts	5 5	5 5	0 0	1 0	1 0
Announcers, Radio & Television	28	32	4	2	6
All Other Professional, Paraprofessional,					
& Technical Workers	10	10	0	0	0
SALES & RELATED OCCUPATIONS	64	70	6	7	13
Travel Agents	42	46	4	5	9
Sales Agents, Advertising All Sales Representatives & Salespersons, Service	15 ce 3	17 3	2 0	2 0	4 0
All Other Sales & Related Workers	4	4	ŏ	Ö	ŏ
CLERICAL & ADMINISTRATIVE SUPPORT OCCUPATIONS	170	180	10	13	23
First Line SupersClerical & Admin. Support	11	11	0	0	0
Secretaries	16	16	0	1	1
Customer Service Representatives, Utilities Bookkeeping, Accounting, & Auditing Clerks	39 24	45 25	6 1	7 1	13
General Office Clerks	23	25 24	1	2	2 3
All Office Machine Operators	5	5	ō	ō	ŏ
Central Office Operators	7	8	1	1	0
All Other Communication Equipment Operators Dispatchers - Exc. Police, Fire, & Ambulance	4 8	4 8	0 0	0	2 0
Meter Readers, Utilities	6	7	1	0	1
Stock Clerks - Stockroom, Warehouse, or Yard	11	11	ō	ō	ō
All Other Material Recording/Scheduling/Dist.	7	7	0	0	0
All Other Clerical & Administrative Support	9	9	0	1	1
SERVICE OCCUPATIONS	23	24	1	2	3
All Service Supervisors & Managers All Cleaning/Building Service, Exc.	1	1	0	0	0
Private House	12	13	1	1	2
All Other Service Workers	10	10	0	1	1
PRODUCTION, MAINTENANCE, & MATERIAL HANDLING First Line Managers/Supervisors - Mechanics/	430	468	38	15	53
Installers/Repairers	24	26	2	2	4
All Other First Line Managers/Supervisors -	3	2	•	•	•
Maintenance/Production/Construction Bus & Truck Mechs., & Diesel Eng. Specialists	3 12	3 13	0 1	0	0 1
Aircraft Mechanics	17	18	î	ŏ	i
Central Office & PBX Installers & Repairers All Other Communication Equipment Mechanics/	6	7	1	0	1
Installers/Repairers	14	15	1	0	1
Electrical Powerline Installers & Repairers	29	34	5	1	6
Station Installers & Repairers, Telephone	8	9	1	0	1
All Other Electrical Mechs./Installers/Repairers Electric Meter Installers & Repairers	28 6	31 7	3 1	1 0	4 1
All Other Mechanics, Installers, & Repairers	24	26	2	0	2
All Construction & Extraction Workers,				-	_
Exc. Helpers	4	4	0	0	0
All Precision Workers All Hand Workers	7 1	7 1	0	0 0	0
All Plant & System Operators	17	17	0	0	0
• •	_	-	-	-	-

TRANSPORTATION, COMMUNICATION, AND PUBLIC UTILITIES

YUMA COUNTY (CONTD.)

				JOB OPENINGS		
	ESTIMATED	ESTIMATED PROJECTED JOB	JOB OPENINGS	DUE TO	TOTAL JOB	
	MAY 1985	MAY 1989	DUE TO GROWTH	SEPARATIONS	OPENINGS	
	EMPLOYMENT	EMPLOYMENT	1985-1989	1985-1989	1985-1989	
Truck Drivers, Heavy or Tractor Trail	er 78	86	8	5	13	
All Other Motor Vehicle Operators	. 19	20	1	1	2	
All Transportation & Related Workers	26	28	2	1	3	
All Transportation & Moving Equip. Op	erators 14	15	1	0	1	
Mechanic & Repairer Helpers	17	19	2	1	3	
All Freight & Material Movers, Hand	14	15	1	0	1	
All Other Helpers & Laborers	62	67	5	3	8	
TOTAL OF ALL OCCUPATIONS	797	857	60	40	100	

Confidential data for certain occupations have been added to "All" or "All Other" categories or collapsed into major occupational classes as follows:

PROFESSIONAL, PARAPROFESSIONAL, & TECHNICAL

- All Engineers
 Electrical & Electronic Engineers
- All Engineering & Related Technicians Estimators & Drafters, Utilities
- All Teachers & Instructors
 Teachers & Instructors, Voc. Ed. & Training
- All Other Professional, Paraprofessional, & Technical Workers Broadcast Technicians

CLERICAL & ADMINISTRATIVE SUPPORT OCCUPATIONS

All Other Material Recording/Scheduling/Dist. Traffic, Shipping, & Receiving Clerks

PRODUCTION, MAINTENANCE, & MATERIAL HANDLING

- All Other Electrical Mechs./Installers/Repairers Telephone & Cable TV Line Installers/Repairers
- All Other Mechanics, Installers, & Repairers
 Machinery Maintenance Mechanics, Water & Power
 Generation Plants
- All Plant & System Operators Auxiliary Equipment Operators, Power Power Reactor Operators
- All Other Motor Vehicle Operators
 Truck Drivers, Light Incl. Delivery & Route
- All Transportation & Related Workers Aircraft Pilots & Flight Engineers
- All Transportation & Moving Equip. Operators Industrial Truck & Tractor Operators Operating Engineers
- All Freight & Material Movers, Hand Refuse Collectors

METHODOLOGY

Sample Selection and Response Rates

Occupational estimates for the transportation, communications, and public utilities industry were developed from a survey of employers throughout the state. Employers who were asked to participate in the survey were selected from a master employer file of firms doing business in Arizona, using standardized sampling techniques. A sample of establishments employing 4-249 employees, and all establishments having 250 or more employees were surveyed. The entire sample was composed of 758 firms with a usable response rate of 91 percent. Firms responding represented 95 percent of the industry's employment in Arizona.

Employment Projections

Projecting occupational employment and demand is accomplished in two basic stages. First, total industry employment is estimated for the target years. These forecasts are computed using an econometric model driven by forecast values for variables such as national unemployment, interest rates, and industrial production. Staffing pattern ratios, as determined by the OES survey, are then applied to the industry employment projections—representing the second stage of the forecasting methodology.

Job Openings

"Total Job Openings" represents the sum of openings resulting from expansion and replacement during the projection period. Expansion is the numerical difference in employment for a given period. Replacement represents job openings that transpire due to separations from the labor force, i.e., death, retirement, and pregnancy. The "Total Job Openings" column does not account for labor turnover, i.e., openings created when a worker changes jobs, leaving the job to be filled by someone else. These vacancies are generally the largest source of job openings.

Limitations of the Data

The projection method does not account for cyclical, seasonal, and such external factors as sudden discontinuations or initiations of major government programs.

Employment forecasts for the nonmetropolitan counties are based on growth rates developed for the "balance of state" (Arizona less Maricopa and Pima counties) rather than for individual counties.

LABOR MARKET INFORMATION PUBLICATIONS OCCUPATIONAL EMPLOYMENT STATISTICS, 733A BOX 6123 PHOENIX, ARIZONA 85005



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